

CURRICULUM VITAE



Ir. Ts. Dr. Abd. Rahim Bin Abu Talib,
A.C.P.E, P.Eng, P.Tech, F.M.S.E.T, M.AEROS, M.S.A.R.E.S, M.S.A.N.A.E
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h-index: 24 (Scopus), 28 (Google Scholar)
 Citations: 1931 (Scopus), 2724 (Google Scholar)



Education

1. **2003** - Doctor of Philosophy in Engineering Science, University of Oxford, U.K
2. **1998** - B.Eng (hons.) in Aeronautical Engineering, University of Salford, U.K
3. **1994** - A-Levels and IELTS, PPP/ITM, Shah Alam, Selangor D.E. Malaysia
4. **1992** - Sijil Pelajaran Malaysia (SPM), Kolej Islam Sultan Alam Shah, Klang, Selangor D.E. Malaysia
5. **1990** - Sijil Rendah Pelajaran (SRP), Sek. Men. Keb. Agama Maahad, Muar, Johor D.T. Malaysia



Areas of Interest

Aerodynamics, Heat Transfer, Propulsion, Sustainable Aviation & Materials.

Professional Qualification/ Membership/ Affiliation

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|--------------------------------------------------------------------------------------------|--------------|
| 1. Category 1 Certified Thermographer, (2023MY37N010) | 2023 - 2028 |
| 2. ASEAN Chartered Professional Engineer, (ACPE-06284/MY) | 2023 to date |
| 3. Member, National Professor Council (MPN04160) | 2022 to date |
| 4. HRDF, Qualified Trainer (Cert. no. 7999) | 2020 to date |
| 5. Professional Technologist, Malaysia Board of Technologist (MBoT) PT17100016 | 2017 to date |
| 6. Graduate Technologist, Malaysia Board of Technologist (MBoT) GT17100007 | 2017 to 2017 |
| 7. Member, Aerospace Society of Malaysia (M.AEROS) - 00019 | 2017 to date |
| 8. Member, Sustainable Aviation & Energy Research Society (M.S.A.R.E.S) | 2016 to date |
| 9. Professional Engineer with Practicing Certificate, Board of Engineers Malaysia C1-16516 | 2016 to date |
| 10. Fellow, Malaysian Society of Engineering and Technology (F.M.S.E.T) - 00095 | 2016 to date |
| 11. Professional Engineer, Board of Engineers Malaysia (BEM) - 16516 | 2014 to 2016 |



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|--------------------------------------------------------------------------------------|-------------|
| 12. Ordinary Member, Malaysian Society of Engineering and Technology (MySET) - 00095 | 2008 – 2016 |
| 13. Graduate Member, Board of Engineers Malaysia (BEM) 43450-A | 2003 – 2014 |
| 14. Member, American Society of Mechanical Engineers (M.ASME) | 2000 – 2018 |
| 15. Student Member, Royal Aeronautical Society (RAeS) | 1996 – 1998 |

Appointments	
Position	Duration
<p>1. Professor Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia</p>	From 1.6.2020
<p>2. Head Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia</p>	1.10.2017 to 30.9.2020
<p>3. Deputy Director Corporate Strategy and Communications, Office of the Vice Chancellor, Universiti Putra Malaysia</p> <p><u>Roles:</u> Responsible for the Corporate Communications for UPM.</p> <p><u>Major Achievements:</u> Successfully delivered the corporate publication for UPM including Tribun Putra, Corporate Profile, Diary and Calendar. The media coverage for UPM in 2017 has reached 7000 in news, articles and clips. There are three major PUTRA Bakti activities organised at the UPM level. The event organisation performance has achieved above 80% management effectiveness index for six major events in 2017.</p>	1.10.2016 – 30.9.2017
<p>4. Head of Aerospace Industry Intelligence Division, Malaysia Industry-Government for High Technology – MiGHT (320059P)</p> <p><u>Roles:</u> Responsible for the aerospace and rail industry sector development.</p> <p><u>Major Achievements:</u> Co-authored and successfully published the 2nd Aerospace Industry Blueprint 2030 and launched of the blueprint during LIMA 2015 in Langkawi by the Prime Minister. Also involved in the aerospace industry inter agency committee for the new EPP8 for Aerospace Manufacturing SME development and the ongoing EPP 5 and 7 under Business Services NKEA. Actively involved as subject matter expert and managed the technology transfer programme for human capital training modules for Rail rolling stock with China Southern Rail company and KTMB. Also responsible as subject matter expert for the Rail signalling and communications training modules technology transfer with THALES company in France, Portugal and Spain under the offset programme organised by Technology Depository Agency.</p>	2014 – 2015
<p>5. Senior General Manager MIGHT-METEOR Advanced Manufacturing Sdn. Bhd. – MMAM (570935-P)</p> <p><u>Roles:</u> In charge of the operation of the company that includes governance, finance and procedures.</p> <p><u>Major Achievements:</u> Successfully delivered the Human Capital Development training programme called National Talent Enhancement Programme (NTEP) for Rail Sector funded by PEMANDU. Also involved in the technology transfer under ICPD programme to FELDA and LEADER Aerospace Programme funded by the Ministry of Higher Education (MoHE).</p>	2012 – 2014
<p>6. Chief Operating Officer Aerospace Malaysia Innovation Centre - AMIC (944751-A)</p> <p><u>Roles:</u> Responsible to look after the technical aspect of project management and programme development.</p> <p><u>Major Achievements:</u> Successfully established the governance for the newly formed company linked by guaranteed in terms of staff manuals, finance, and research & technology guidelines. Managed to conduct a series of board of directors meeting that consist of representatives from Rolls Royce, Airbus, CTRM, MIGHT and UPM. AMIC also successfully being launched during LIMA 2011.</p>	2011 - 2012





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| 7. | Associate Professor,
Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia | 1.2.2010 -31.5.2020 |
| 8. | Deputy Dean
Academic, Student Affairs, Alumni, and Industry-Society Network, Faculty of Engineering, UPM | 1.8.2009 –
31.10.2011 |
| 9. | Senior Lecturer
Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia | 2008 – 2010 |
| 10. | Head
Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia | 1.11.2007 –
31.7.2009 |
| 11. | Lecturer
Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia | 27.10.2003 – 2007 |
| 12. | Laboratory Demonstrator,
Osney Laboratory, Department of Engineering Science, University of Oxford, UK | 2001 – 2002 |
| 13. | Tutor,
Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia | 1998 – 2003 |

Teachings

Undergraduate Programme

	<u>Credits</u>
1. EAS3523 Propulsion	3(3+0)
2. TR3011 Aerodynamics 2 – Compressible Aerodynamics	3 (ECTS:6)
3. EAS4511 Air Breathing Engine	3(3+0)
4. ECV3011 Engineers and Society	3(2+1)
5. EAS3513 Propulsion	3(3+0)
6. EAS4947 Aerospace Design Project	4(0+4)
7. EAS3123 Management of Aerospace Industry	3(3+0)
8. EAS4501 Air Breathing Engine	3(3+0)
9. EAS3923 Aerospace Laboratory III (Propulsion)	1(0+1)
10. EAS3103 Management of Aerospace Industry and Agriculture	2(2+0)
11. EAS3921 Aerospace Laboratory I (Thermofluids)	1(0+1)
12. EAS3211 Thermofluids	3(3+0)
13. EAS3511 Aerothermodynamics	3(3+0)
14. EAS3503 Propulsion	3(3+0)
15. KAA3512 Heat Transfer	2(2+0)
16. KAA3511 Thermodynamics	3(3+0)
17. KAA3513 Propulsion	3(3+0)
18. KAA3403 Propulsion II	3(3+0)
19. KAA3202 Aerodynamics II	3(3+0)
20. KAA3802 Power Generation System	3(3+0)

Postgraduate Programme

1. EAS5108 Aerospace Quality and Project Management	3(3+0)
2. EAS5100 Research Methodology	3(3+0)
3. EAS5107 Entrepreneurship in Innovation	3(3+0)
4. EAS5105 Innovation Studies	3(3+0)
5. EAS5103 Group Business and Design Project	3(3+0)
6. EAB5900 Research Methodology	3(3+0)
7. EAS5101 Innovation Studies 1	3(3+0)
8. KAA4203 Innovation Studies 1	3(3+0)

Journals

Year 2024

1. Muhammad Fitri Mohd Zulkeple, **A. R Abu Talib**, Mohammad Yazdi Harmin, Syamimi Saadon, Muhammad Hanafi Azami, Talal Yusaf (2024), "Numerical Investigation of Heat Transfer Enhancement via Dimpled Target Surface Configuration and Jet Arrangement in Impingement Cooling." *Journal of Aeronautics, Astronautics and Aviation*, 56, no. 1S : 109-122. *Accepted (ESCI, Scopus Index)*.
2. Muhammad Fitri Mohd Zulkeple, **A. R Abu Talib**, Mohammad Yazdi Harmin, Syamimi Saadon, Muhammad Hanafi Azami, Talal Yusaf (2024), "Comprehensive Analysis of Geometric Hole Designs and Configurations in Film Cooling for Gas Turbine Engines: A Critical Review." *Journal of Aeronautics, Astronautics and Aviation* 56, no. 1S : 203-234. *Accepted (ESCI, Scopus Index)*.
3. Michael Chong Vui San, Mohd Zahirasri Mohd Tohir, Syamimi Saadon, **A. R Abu Talib** (2024) "Developing an enhanced thermal radiation model through a Semi-A priori approach, *International Journal of Thermal Science*, 197: 108784. <https://doi.org/10.1016/j.ijthermalsci.2023.108784> (JCR Q1, I.F = 4.5)

Year 2023

4. Sivapalan, Jasvinraj, Azmin Shakrine Mohd Rafie, **A. R Abu Talib**, Ezanee Gires, Adi Azriff Basri, Fairuz Izzuddin Romli, Ahmad Salahuddin Mohd Harithuddin, Sharizal Ahmad Sobri, and Mohd Faisal Abdul Hamid (2023), "The Aerodynamic Lift Performance Analysis of Channel-Wing Design for STOL Aircraft." *Journal of Aeronautics, Astronautics and Aviation* 55, no. 3S : 415-423. (ESCI, Scopus Index).
5. Jubayer Abdullah Rafiul Alam, **A.R Abu Talib**, Yazan S. M. Altarazi, Talal Yusaf, Muhammad Hanafi Azami, and Nik Ahmad Ridhwan Nik Mohd, (2023), Experimental Investigation on Gas Turbine Engine Performance using Alternative Fuel, *Journal of Aeronautics, Astronautics and Aviation*, Vol. 55, No. 3S, 479-483 (ESCI, Scopus Index).
6. T. Yusaf, A.S.F Mahamude, K. Kadirgama, D. Ramasamy, K. Farhana, H. Al-Dhahad, and **A.R Abu Talib** (2023), Sustainable Hydrogen Energy in Aviation – A Narrative Review, *International Journal of Hydrogen Energy*, <https://doi.org/10.1016/j.ijhydene.2023.02.086> (JCR Q2, I.F = 7.139)
7. M.H. Mat Yazik, M.T., Hameed Sultan, M., Jawaid, N., Mazlan, **A.R Abu Talib**, A.U., Md. Shah, S.N.A. Safri, (2023), Shape memory properties of epoxy with hybrid multi-walled carbon nanotube and montmorillonite nanoclay nanofiller. *Polymer Bulletin*, <https://doi.org/10.1007/s00289-023-04750-4> (JCR Q3, I.F 2.843)
8. I.K Masalha, S.U Masuri, O. Badran, M.K.A. Mohd Ariffin, **A.R Abu Talib**, and F. Alfaqs (2023), Outdoor experimental and numerical simulation of photovoltaic cooling using porous media, *Case Studies in Thermal Engineering*, 42, 102748 <https://doi.org/10.1016/j.csite.2023.102748> (JCR Q1, I.F = 4.724)
9. Y.S.M Alterazi, **A.R Abu Talib**, J. Yu, E. Gires, M.F Abdul Ghafir, J. Lucas, and T. Yusaf (2023), Simulating Aero-engine Performance and Emissions Characteristics running on Green Diesel, *International Journal of Green Energy*, 20(4): 372-377. <https://doi.org/10.1080/15435075.2022.2047053> (JCR Q2, I.F = 2.459)
10. I.K Masalha, S.U Masuri, O. Badran, M.K.A. Mohd Ariffin, **A.R Abu Talib**, and F. Alfaqs (2023), Theoretical and experimental study on the cooling performance of photovoltaic panel using porous media, *International Journal of Renewable Energy Development*, 12(2), 313-327. <https://doi.org/10.14710/ijred.2023.47686> (Scopus Index).

Year 2022

11. **A.R Abu Talib**, S. Salman, M.F Mohd Zulkeple and A.K Hilo (2022), Experimental Investigation of Nanofluid Turbulent Flow Over Microscale Backward-Facing Step, *Journal of Advanced Research in Experimental Fluid Mechanics*, 99(2): 119-134 <https://doi.org/10.37934/arfmts.99.2.119134> (Scopus Index).
12. F.A Diabis, **A.R Abu Talib**, Y.S.M Al-Tarazi, N. Mazlan, and E.E Supeni (2022), Thermal Performance of Four-Lobe Swirl Generator and its Transition Parts Under a Different Type of Nanofluids, *CFD Letters*, 14(11): 63-74. <https://doi.org/10.37934/cfdl.14.11.6374> (Scopus Index).
13. Azeez, K., **Abu Talib, A. R.** & Ibraheem Ahmed, R. (2022). Heat transfer enhancement for corrugated facing step channels using aluminium nitride nanofluid - numerical investigation. *Journal of Thermal Engineering*, 734-747. <https://doi.org/10.18186/thermal.1197106> (Scopus Index, ESCI)
14. M.I. Najeeb, M.T.H. Sultan, A.U.M. Shah, S.N.A. Safri, M. Jawaid, **A.R. Abu Talib** & A.A. Basri (2022): Flexural, Dynamic and Thermo-Mechanical Analysis of Pineapple Leaf Fiber/Epoxy Composites, *Journal of Natural Fibers*, <https://doi.org/10.1080/15440478.2022.2139323> (JCR Q1 – Top 10%, I.F = 5.323)
15. T.M Loganathan, M.T Hameed Sultan, Q. Ahsan, M. Jawaid, J. Naveen, A.U Md Shah, **A.R Abu Talib**, and A.A Basri (2022), Thermal degradation, visco-elastic and fire-retardant behavior of hybrid Cyrtostachys Renda/kenaf fiber-reinforced MWCNT-modified phenolic composites, *Journal of Thermal Analysis and Calorimetry*, <https://doi.org/10.1007/s10973-022-11557-4> (JCR Q1, I.F = 4.626)
16. Y.S.M Alterazi, **A.R Abu Talib**, T. Yusaf, J. Yu, E. Gires, M.F Abdul Ghafir, and J. Lucas (2022), A review of engine performance and emissions using single and dual biodiesel fuels: Research paths, challenges, motivations and recommendations, *Journal of Fuel*, 326, 125072, <https://doi.org/10.1016/j.fuel.2022.125072> (JCR Q1, I.F = 6.609)
17. F.S Shahar, M.T Hameed Sultan, A.U Md Shah, S.N.A Safri, M. Jawaid, **A.R Abu Talib**, and A.A Basri (2022), Physical, Thermal, and Tensile behaviour of the 3D printing Kenaf/PLA suggest usability for Ankle-Foot Orthosis, *Rapid Prototyping Journal*, <https://doi.org/10.1108/RPJ-08-2021-0207> (JCR Q1, I.F = 3.095)

18. **A.R Abu Talib** and S. Salman, (2022), Heat transfer and fluid flow analysis over the microscale backward-facing step using $\beta\text{Ga}_2\text{O}_3$ nanoparticles, *Experimental Heat Transfer*, 35(2), <https://doi.org/10.1080/08916152.2022.2039328> (JCR Q1, I.F = 4.058)
19. T. Yusaf, L. Fernandes, **A.R Abu Talib**, Y.S.M Alterazi, W. Alrefae, K. Kadirgama, D. Ramasamy, A. Jayasuriya, G. Brown, R. Mamat, H.a Dhahad, and F. Benedict, (2022), Sustainable Aviation—Hydrogen Is the Future, *Sustainability*, 4(1): 548. <https://doi.org/10.3390/su14010548> (JCR Q2, I.F = 3.251)
20. F.S Shahar, M.T Hameed Sultan, S.N.A Safri, M. Jawaid, **A.R Abu Talib**, A.A Basri, and A.U Md Shah (2022), Fatigue and impact properties of 3D printed PLA reinforced with kenaf particles, *Journal of Materials Research and Technology*, 16: 461-470, <https://10.1016/j.jmrt.2021.12.023> (JCR Q1 – Top 10%, I.F = 5.289)
21. Y.S.M Alterazi, **A.R Abu Talib**, J. Yu, E. Gires, M.F Abdul Ghafir, J. Lucas, and T. Yusaf (2022), Effects of Biofuel on Engines Performance and Emission Characteristics: A Review, *Energy*, 238, Part C, 121910 <https://doi.org/10.1016/j.energy.2021.121910> (JCR Q1 – Top 10%, I.F = 7.147)
22. T. Kumaravelu, S. Saadon, and **A.R Abu Talib** (2022), Heat transfer enhancement of a Stirling engine by using fins attachment in an energy recovery system, *Energy*, 239, Part A, 121881, <https://doi.org/10.1016/j.energy.2021.121881> (JCR Q1 – Top 10%, I.F = 7.147)

Year 2021

23. T.M Loganathan, M.T Hameed Sultan, Q. Ahsan, M. Jawaid, J. Naveen, A.U Md Shah, **A.R Abu Talib**, A.A Basri and C.N.A Jaafar (2021), Effect of Cyrtostachys renda Fiber Loading on the Mechanical, Morphology, and Flammability Properties of Multi-Walled Carbon Nanotubes/Phenolic Bio-Composites, *Nanomaterials*, 11(11), 3049; <https://doi.org/10.3390/nano11113049> (JCR Q2, I.F 4.324)
24. T.M Loganathan, M.T Hameed Sultan, M. Jawaid, Q. Ahsan, J. Naveen, A.U Md Shah, **A.R Abu Talib**, and A.A Basri (2021), Physical, Mechanical, and Morphological Properties of Hybrid Cyrtostachys renda/Kenaf Fiber Reinforced with Multi-Walled Carbon Nanotubes (MWCNT)-Phenolic Composites, *Polymers*, 13, 3448, <https://doi.org/10.3390/polym13193448> (JCR Q1, I.F = 3.426)
25. I.K Masalha, S.U Masuri, M.K.A. Mohd Ariffin, and **A.R Abu Talib**, and O. Badran (2021), Experimental and Theoretical Study on Photovoltaic Cooling Using Porous Media. *SSRN Electronic Journal*, <http://dx.doi.org/10.2139/ssrn.3918154>
26. S.R Nfawa, **A.R Abu Talib**, A.A Basri, and S.U Masuri (2021), Novel use of MgO nanoparticle additive for enhancing the thermal conductivity of CuO/water nanofluid, *Case Studies in Thermal Engineering*, 27, 101279 <https://doi.org/10.1016/j.csite.2021.101279> (JCR Q1, I.F = 4.724)
27. Y.S.M Alterazi, **A.R Abu Talib**, S. Saadon, J. Yu, E. Gires, J. Lucas, and T. Yusaf (2021), Performance and exhaust emissions rate of small-scale turbojet engine running on dual biodiesel blends using Gasturb, *Energy*, 232, 120971, <https://doi.org/10.1016/j.energy.2021.120971> (JCR Q1 – Top 10%, I.F = 7.147)
28. T.M Loganathan, M.T Hameed Sultan, Q. Ahsan, A.U Md Shah, M. Jawaid, **A.R Abu Talib**, A.A Basri (2021), Physico-mechanical and Flammability Properties of Cyrtostachys renda Fibers Reinforced Phenolic Resin Bio-composites, *Journal of Polymers and the Environment*, 1-18. <https://doi.org/10.1007/s10924-021-02135-0> (JCR Q2, I.F = 2.572)
29. M. H. Mat Yazik, M. T. H. Sultan, M. Jawaid, **A. R Abu Talib**, N. Mazlan, A. U. Md Shah, S. N. A. Safri (2021), Effect of nanofiller content on dynamic mechanical and thermal properties of multi-walled carbon nanotube and montmorillonite nanoclay filler hybrid shape memory epoxy composites, *Polymers*, 13, 700. <https://doi.org/10.3390/polym13050700> (JCR Q1, I.F = 3.426)
30. **A R Abu Talib** and A.K Hilo, (2021), Fluid Flow and Heat Transfer through Corrugated Backward-Facing Step Channel, *Case Studies in Thermal Engineering*, 24, 100862, <https://doi.org/10.1016/j.csite.2021.100862> (JCR Q1, I.F = 4.724)
31. I. Muhammad and **A.R Abu Talib** (2021), Experimental Investigation of Metal- Laminates with Aerogel in High-Temperature Application, *Journal of Aeronautics, Astronautics and Aviation*, 53(2): 121-128, [https://doi.org/10.6125/JoAAA.202106_53\(2\).03](https://doi.org/10.6125/JoAAA.202106_53(2).03) (ESCI, Scopus Index).

Year 2020

32. Ali Hilo, **A R Abu Talib**, A.A Iborra, M.T.H. Sultan, and M.F Abdul Hamid (2020), Effect of corrugated wall combined with backward-facing step channel on fluid flow and heat transfer, *Energy*, 190, 116294. (JCR Q1 – Top 10%, I.F = 6.082) <https://doi.org/10.1016/j.energy.2019.116294>
33. Ali Hilo, **A R Abu Talib**, A.A Iborra, M.T.H. Sultan, and M.F Abdul Hamid (2020), Experiment study of nanofluids flow and heat transfer over a backward-facing step channel, *Powder Technology*, 372: 497-505 (JCR Q1, I.F = 3.413)
34. S. Salman, **A.R Abu Talib**, S. Saadon, M.T.H. Sultan (2020), Hybrid Nanofluid Flow and Heat Transfer Over Backward and Forward Steps: A Review, *Powder Technology*, 363: 448-472 (JCR Q1, I.F = 3.413) <https://doi.org/10.1016/j.powtec.2019.12.038>
35. S.N.I.H Ahmad Nadzri, M.T Hameed Sultan, A.U Md Shah, S.N.A Safri, **A.R Abu Talib**, M Jawaid, and A.A Basri (2020), A Comprehensive Review of Coconut Shell Powder Composites: Preparation, Processing and Characterization, *Journal of Thermoplastics Composite Materials*, <https://doi.org/10.1177/0892705720930808> (JCR Q3, I.F = 1.343)
36. M.H. Mat Yazik, M.T Hameed Sultan, N. Mazlan, **A.R Abu Talib**, Naveen J, A.U Md Shah, S.N.A Safri, Effect of Hybrid Multi-Walled Carbon Nanotube and Montmotillonite Nanoclay Content on Mechanical Properties of Shape Memory Epoxy Nanocomposite, *Journal of Materials Research & Technology*, 9(3): 6085-6100 <https://doi.org/10.1016/j.jmrt.2020.04.012> (JCR Q1, I.F = 3.327).

37. Y.S.M Alterazi, **A.R Abu Talib**, S. Saadon, J. Yu, E. Gires, M.F Abdul Ghafir, and J. Lucas (2020), On-Design Operation and Performance Characteristics of Custom Engine, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 70(1): 144-154 <https://doi.org/10.37934/arfmts.70.1.144154> (Scopus Index).
38. N. Bheekhun and **A.R Abu Talib** (2020), Auditing the Aerospace Industry in Southeast Asia: 9100 Series, *Journal of Aeronautics, Astronautics and Aviation*, 52(1): 115-122 [https://doi.org/10.6125/JoAAA.202003_52\(1\).10](https://doi.org/10.6125/JoAAA.202003_52(1).10) (ESCI, Scopus Index).
39. L.C Leong, **A.R Abu Talib**, and V. Indiran (2020), Professional Pathway for Civil Aviation Authority of Malaysia (CAAM) Aircraft Maintenance License Holder Registered at BEM, *Journal of Aeronautics, Astronautics and Aviation*, 52(1): 105-114 (ESCI, Scopus Index).
40. I. Muhammad and **A.R Abu Talib** (2020), Strength Behaviour of Silica Aerogel/Thermoset Polymer with Reinforced Fibre-metal Laminate Composites, *Journal of Aeronautics, Astronautics and Aviation*, 52(1): 15-24 (ESCI, Scopus Index).

Year 2019

41. A.M.R Azmi, M.T.H Sultan, M. Jawaid, A.U.M Shah, A.F.M Nor, M.S.A Majid, and **A.R Abu Talib** (2019), Impact Properties of Kenaf/X-Ray Films Hybrid Composites for Structural Applications, *Journal of Materials Research and Technology*, 8(2): 1982-1990 (JCR Q1, I.F = 3.327).
42. S.Q Bootan, E.E Supeni, M.K.A Ariffin and **A.R Abu Talib** (2019), RSM Approach for Modelling of Designing Parameters for Inclined Fins of Solar Air Heater, *Renewable Energy*, 136: 48-68 (JCR Q1, I.F = 5.439).
43. S.Q Bootan, E.E Supeni, M.K.A Ariffin and **A.R Abu Talib** (2019), Numerical investigation of flow through inclined fins under absorber plate of solar air heater, *Renewable Energy*, 141: 468-481 (JCR Q1, I.F = 5.439).
44. I. Muhammad and **A.R Abu Talib** (2019), Burn-through Responses of Aero-engine Nacelle using Fibre Metal Composite by ISO2685 Burner, *International Journal of Recent Technology and Engineering*, 8(4): 9235-9238 (Scopus Index).
45. S. Salman, **A.R Abu Talib**, A. Hilo, S.R Nfawa, M.T.H Sultan and S. Saadon, (2019) Numerical Study on the Turbulent Mixed Convective Heat Transfer over 2D Microscale Backward-Facing Step, *CFD Letters*, 11(10): 31-45 (Scopus Index).
46. S.R Nfawa, **A.R Abu Talib**, A.A Basri, S.U Masuri, and H. Hasini (2019), Heat Transfer Enhancement in A Corrugated-Trapezoidal Channel Using Winglet Vortex Generators, *CFD Letters*, 11(10): 69-80 (Scopus Index).
47. M F Mohd Zulkeple, **A R Abu Talib**, E Gires, M T Hameed Sultan (2019), Microencapsulation and Thickness Effect on the Occurrence of Hysteresis of Thermochromic Liquid Crystal Calibration, *Journal of Aeronautics, Astronautics and Aviation*, 51(2): 171-181 (ESCI, Scopus Index).
48. **A.R Abu Talib**, W. Rujhan, I Mohammed, N.I Bheekhun (2019) Effect of Different Weightage of Enova® IC3100 Silica Aerogel on Aluminium Alloy Composites in ISO2685 Aviation Standard Fire-Test, *International Journal of Sustainable Aviation*, 5(1): 44-53 (ESCI)
49. **A R Abu Talib**, I Mohammed, N Mohamad Damshal, and M J Suleiman@Ahmad (2019), Physical and Mechanical Properties of Fireproof Inconel 718 with Palm Stearin and Stearic Acid Binder, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 54(1): 112-123 (Scopus Index).
50. M F Mohd Zulkeple, **A R Abu Talib**, E Gires, M T Hameed Sultan (2019), Investigation on the Effect of Sample Preparation on the Performance of Thermochromic Liquid Crystal, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 54(2): 150-164 (Scopus Index).
51. Ali Hilo, **A R Abu Talib**, Sadeq R. Nfawa, M.T.H.Sultan, M.F Abdul Hamid and M.I Nadiir Bheekhun (2019), Heat Transfer and Thermal Conductivity Enhancement using Graphene Nanofluid: A Review, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 55(1): 74-87 (Scopus Index).
52. I Mohammed and **A.R Abu Talib** (2019), Mechanical properties of carbon fibre reinforced aluminium laminates using two different layering patterns for aero engine application, *Advances in Materials and Processing Technologies*, Taylors & Francis, 5(1): 123-131, DOI: 10.1080/2374068X.2018.1530427, (Scopus Index).

Year 2018

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19. M.A Dahalan, and **A.R Abu Talib** (2020), Efficiency and Sustainability of Electric Power Management System for Unmanned Aerial Vehicles, International Symposium on Electric Aviation and Autonomous System (ISEAS), Kiev, Ukraine, 22-24 September.

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23. **A.R Abu Talib**, F. Hasyim, N.K Noordin, M.F A.Rasid, R. Wagiran, M.I Saripan, M.H Marhaban, M.J Megat Mohd Noor, S. Mohammed, S. Abdul Talib, H. Salleh, Z. Mohd Fahmi, and M.S Jaafar (2019) Development of Employer Perception Survey for Malaysia Integrated Rating among University and College University, Presented at the FEIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia, 1-5 November.
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26. Chee Leong Liew, **A.R Abu Talib** and Viji Indiran (2019) Professional Pathway for Civil Aviation Authority of Malaysia (CAAM) Aircraft Maintenance License Holder Registered at BEM, Presented at the SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Aug 29-30, Kuala Lumpur Malaysia.
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3. R. Wagiran, A.G.L Abdullah, S. Abdul Rashid, **A.R Abu Talib**, N.K Noordin and M.J Megat Mohd Noor, Proceedings, *FEIC Seminar on Engineering and Technology*, Kuching, Malaysia. ISBN 983-41705-3-X. FEIC, **2008**.
4. S. Abdul Rashid, A.G.L Abdullah, **A.R Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Nordin, M.R Osman and M.J Megat Mohd Noor, Proceedings, *International Engineering Convention*, Jeddah, Saudi Arabia, ISBN 978-983-41705-4-7, FEIC, **2007**.
5. A.S Mokhtar, E.J Abdullah, N.M Adam, **A.R Abu Talib**, N.A Abdul Jalil, R. Zahari, W.M.I Hassan and Z.A Zulkefli, Proceedings, World Engineering Congress, *Mechanical and Aerospace Engineering Conference*, Penang, Malaysia, ISBN 978-983-43571-1-5, FEIC, **2007**.
6. **A.R Abu Talib**, A.G.L Abdullah, R. Wagiran, S. Abdul Rashid, M.R Osman and M.J Megat Mohd Noor, Proceedings, *FEIC Seminar on Engineering and Technology*, Putrajaya, Malaysia. ISBN 983-41705-3-X. FEIC, **2006**.

Chapter in Books

1. T. Moli, M.T Hameed Sultan, M. Jawaid, **A.R Abu Talib**, A.A Basri, A.U Md Shah, and S.N.A Safri, Effect of NaOH Treatment of Cellulosic Lipstick Palm Fiber on Tensile and Fiber-Matrix Interfacial Strength with Phenolic Resin, In: Bahari, M.S., Harun, A., Zainal Abidin, Z., Hamidon, R., Zakaria, S. (eds), *Intelligence Manufacturing and Mechatronics*, Lecture Notes in Mechanical Engineering, Springer Nature Singapore, Pte. Ltd. **2021**. https://doi.org/10.1007/978-981-16-0866-7_72
2. I. Mohammed and **A.R Abu Talib**, Synthetic/Natural Fibres Composites for Aircraft Engine Fire Designated Zones and Its potential application in automotive engine, Edited by Sapuan and Ilyas: *Biocomposite and Synthetic Composites for Automotive Application*, Woodhead Publishing, ELSEVIER, p.255-274, **2021**. <https://doi.org/10.1016/B978-0-12-820559-4.00010-9>
3. **A.R Abu Talib** and N. Bheekhun, Aerogel-Based Thermally Sprayed Coatings for Aero-Propulsion Systems: A Feasibility Study Based on Structural Health Monitoring Approach, Edited by Mohammad Jawaid *et al.*: *Structural health monitoring of Biocomposites, Fibre reinforced composites and Hybrid composites*, Woodhead Publishing, ELSEVIER, p.191-225, **2019**. <https://doi.org/10.1016/B978-0-08-102291-7.00010-1>
4. **A.R Abu Talib** and I. Mohammed, Synthetic / Natural fibre properties of fire designated zone of an aircraft engine – A Structural Health Monitoring Approach, Edited by Mohammad Jawaid *et al.*: *Structural health monitoring of Biocomposites, Fibre reinforced composites and Hybrid composites*, Woodhead Publishing, ELSEVIER, p.153-190, **2019**. <https://doi.org/10.1016/B978-0-08-102291-7.00009-5>

5. I. Mohammed and **A.R Abu Talib**, Mechanical Properties of Different Layering Pattern of Carbon Fibre Reinforced Aluminium Laminates for Aero Engine Application, Edited by M.A Azmah Hanim, C.N Aiza Jaafar and K. Vidyatharran: Basic Methodology – Sample Preparation and Characterization, Universiti Putra Malaysia, pp. 58-62, **2018** (ISBN: 978-983-2408-64-2).
6. N. Bheekhun and **A.R Abu Talib**, Physical Properties of Powdered Silica Aerogels: A Comparative Study, Edited by M.A Azmah Hanim, C.N Aiza Jaafar and K. Vidyatharran: Basic Methodology – Sample Preparation and Characterization, Universiti Putra Malaysia, pp. 73-77, **2018** (ISBN: 978-983-2408-64-2).

Articles in Professional Magazine

1. **A.R Abu Talib**, Engineering technology: where do we go from here? *The Ingeniuer*, Board of Engineers Malaysia, Vol. 90, Apr - Jun, **2022**.
2. **A.R Abu Talib**, L.C Leong, and V. Indiran, Professional Pathway for CAAM Aircraft Maintenance License Holders Registered with BEM, *The Ingeniuer*, Board of Engineers Malaysia, Vol. 81, pp. 56-67, Jan - Mac, **2020**.
3. L.C Leong and **A.R Abu Talib**, Aircraft Maintenance Engineering Professional, *The Ingeniuer*, Board of Engineers Malaysia, Vol. 81, pp. 9-15, Jan - Mac, **2020**.
4. **A.R Abu Talib**, N. Bheekhun and L.C Leong, Growing Demand on Air Transportation: Global and Local Scenario, *The Ingeniuer*, Board of Engineers Malaysia, Vol. 74, pp. 9-18, Apr - Jun, **2018**.
5. N. Bheekhun and **A.R Abu Talib**, Gaps in Engineering Education, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 44: 16 – 19, Jan-Feb, **2018**.
6. N. Bheekhun and **A.R Abu Talib**, Aeronautics in Qur'an, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 41: 15 – 16, July-August, **2017**.
7. **A.R Abu Talib**, Paths to Commercialization: From Idea to Market, *The Ingeniuer*, Board of Engineers Malaysia, Vol. 68, Oct - Dec, **2016**.
8. N. Bheekhun and **A.R Abu Talib**, Aerogel: An Economic Perspective, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 34: 12 – 16, March-April, **2016**.
9. **A.R Abu Talib**, The Key to Innovation Success - Part 2, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 30, Sept-Oct, **2015**.
10. **A.R Abu Talib**, The Key to Innovation Success - Part 1, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 29, Jul-Aug, **2015**.
11. **A.R Abu Talib** and N.F Helme, Aerospace Education & Training Demand and Supply in Malaysia, *Malaysia's National Foresight Magazine (myForesight)*, Malaysian Industry-Government Group for High Technology (MIGHT), 1: 12-17, **2015**.
12. **A.R Abu Talib** and A.A Mansur, National Talent Enhancement Programme, *Malaysian Rail Supporting Industry Roadmap 2030*, Malaysian Industry-Government Group for High Technology (MIGHT), p.84, **2014**.
13. **A.R Abu Talib**, Fostering Future Technologist in Maritime Industry, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 25: 6-10, September-October **2014**.
14. J. Baba, **A.R Abu Talib**, B. Salleh, Nurturing Today's Talent for Future Leaders, *Malaysia's National Foresight Magazine (myForesight)*, Malaysian Industry-Government Group for High Technology (MIGHT), 1: 35-40, **2013**.
15. **A.R Abu Talib**, Towards Green and Sustainable Aeronautics, *Malaysia's National Foresight Magazine (myForesight)*, Malaysian Industry-Government Group for High Technology (MIGHT), 3: 26-30, **2012**.

Keynotes/ Invited Presentation

International

1. **Keynote speaker**, *Auditing the Aerospace Industry in Southeast Asia*, 6th Southeast Asia Workshop on Aerospace Engineering, 20-21 October, Vietnam (**2022**).
2. **Keynote Speaker**, *Simulating Aero-Engine Performance and Emissions Using Green Diesel Fuels and Its Blends*, International Symposium on Sustainable Aviation, Melbourne, Australia, 3-5 August (**2022**).
3. **Keynote Speaker**, *Hydrogen as Alternative Energy for Sustainable Aviation*, International Symposium on Energy Management and Sustainability (ISEMAS), Istanbul, Turkey, 6-8 April (**2022**).
4. **Keynote Speaker**, *Aviation Industry in the Post Pandemic Covid-19: Resetting the Landscape*, International Symposium on Sustainable Aviation, Bangkok, Thailand, 25-27 November (**2021**).
5. **Keynote Speaker**, *Development and Applications of Unmanned Aircraft System Industry in Malaysia*, International Symposium on Unmanned Systems and The Defense Industry, Washington D.C, USA, 26-28 October (**2021**).
6. **Keynote Speaker**, *Aerogel-Based Thermal Insulating Coating for Industrial Applications*, International Conference on Materials Research in Science and Engineering, Chennai, India, 23-25 July (**2021**).
7. **Invited Speaker**, *Aviation Workforce: Challenges for the Coming Years in a Digital World*, Portugal Air Summit, Lisbon, Portugal, 22 October (**2020**).
8. **Keynote Speaker**, *Efficiency and Sustainability of Electric Power Management System for UAV*, International Symposium on Electric Aviation and Autonomous System (ISEAS), Kiev, Ukraine, 22-24 September (**2020**).

9. **Keynote Speaker**, *Webinar “Sarasehan dan Diskusi Panel Internasional Elektronika: Mensinergitaskan dan Kolaborasi antara Pendidikan Tinggi Vokasi, SMK + Lembaga Diklat Vokasi dan DUDI, dengan IoT IR 4.0*, Organised by Dewan Pengurus Wilayah Persaudaraan Dosen Republik Indonesia, 28 July (2020).
10. **Invited Speaker**, *Webinar “International Learning, Researching, Collaboration and Publishing with IR4.0 with IOT*, Organised by Dewan Pengurus Wilayah Persaudaraan Dosen Republik Indonesia., 10 July (2020).
11. **Invited Speaker**, *Development of Employer Perception Survey for Malaysia Integrated Rating among University and College University*, FEIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia, 1-5 November (2019).
12. **Invited Speaker**, *Workshop on Equivalence Study for Engineer*, Myanmar Engineering Council, Yangon, 3 August (2019).
13. **Keynote Speaker**, *Recent Development of Electric and Hybrid Propulsion Systems: Issues & Challenges*, International Symposium on Sustainable Aviation (ISSA), Budapest, Hungary, 26-29 May (2019).
14. **Keynote Speaker**, *Fire-Certification on Natural Fibre Composites Panels for Aircraft Engine Application*, International Conference on Aeronautics, Astronautics and Aviation (ICAAA), Chennai, India, 23-24 March (2018).
15. **Invited Speaker**, *Towards Sustainable Engineering Education: A Preview*, FEIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia, 16-17 December (2017).
16. **Invited Speaker**, *Design Improvement of Multi-Purpose Disposable Safety Syringe*, World Research and Innovation Convention on Engineering and Technology, Adya Hotel, Langkawi, 25th October (2016).
17. **Invited Speaker**, *Development of the Aerospace Industry: Charting the Path for Malaysia*, Kuala Lumpur International Business Convention (KLIABC), MATRADE Convention Centre, Kuala Lumpur, 27-29th April, (2015).
18. **Invited Speaker**, *Integrated Module Based Education Model for Engineering and Technology*, International Engineering Education Conference (IEEC), Madinah, Saudi Arabia, (2013).

National

1. **Invited Speaker**, *Tren Global dan Cabaran untuk Kepimpinan Pendidikan di Malaysia*, Educational Leadership Enhancement Programme, Institut Aminudin Baki, Kementerian Pendidikan Malaysia, Oktober 12 (2022)
2. **Invited Speaker**, *Taklimat Instrumen SETARA 2022 – Fasilitator*, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi Malaysia, June (2022).
3. **Invited Speaker**, *Taklimat Instrumen SETARA 2022 – IPT*, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi Malaysia, March (2022).
4. **Invited Speaker**, *Sharing Session in Securing: Malaysia-Spain Innovation Programme*, IIUM Research Management Centre, International Islamic University Malaysia, June 23, (2022).
5. **Invited Speaker**, *Sharing Session in Securing: Malaysia-Spain Innovation Programme*, Centre of Advanced Manufacturing & Materials Processing, Universiti Malaya, June 23, (2022).
6. **Visiting Professor Lecture**, *Visiting Professor Lecture, Aerospace Industry Development: Post Covid19 Pandemic*, Faculty of Information, Science, & Engineering, Management Science University, March 28, (2022).
7. **Visiting Professor Lecture**, *Tips & Tricks On Research And Publication*, Faculty of Information, Science, & Engineering, Management Science University, March 29, (2022).
8. **Panel Jemputan**, *Teknologi untuk Kebaikan*, Program Halaqah TV3, (2021).
9. **Invited Speaker**, *Knowledge Profile, Complex Problem Solving, and Engineering Activities*, School of Mechanical Engineering, Universiti Teknologi Malaysia, August 24, (2021).
10. **Invited Speaker**, *Aerospace Industry*, Kolej Yayasan UEM, Lembah Beringin, Feb 3 (2020).
11. **Invited Speaker**, *Route to Professional Engineer Workshop for Perbadanan Putrajaya*, Pulse Grande Hotel, Putrajaya, 18-20 Dec (2019).
12. **Keynote Speaker**, *Human Factors in Aviation Safety*, 4th International Conference on Ergonomics and 2nd International Conference on Industrial Engineering, Kuala Terengganu, 27-28 Aug (2019).
13. **Invited Speaker**, *Registration of License Aircraft Maintenance Engineer with BEM*, Association of Malaysia Airlines LAE (AMALAE), Malaysia Airlines Berhad, 19 July (2019).
14. **Visiting Professor Lecture**, *Aerospace Industry Management*, Faculty of Information Science and Engineering, Management Science University, 14 March (2019).
15. **Invited Lecture**, *Self-Assessment Report Writing for Engineering Technician Programme Accreditation*, Politeknik Banting, Department of Polytechnic Education, Ministry of Higher Education, 7-8 May (2018).
16. **Invited Lecture**, *Self-Assessment Report Writing for Engineering Technician Programme Accreditation*, Politeknik Kota Bharu, Department of Polytechnic Education, Ministry of Higher Education, 18-19 November (2017).
17. **Invited Lecture**, *Self-Assessment Report Writing for Engineering Technology Programme Accreditation*, UniKL MICET, 2-3 November (2017).
18. **Invited Lecture**, *Self-Assessment Report Writing for Engineering Technician Programme Accreditation*, Department of Polytechnic Education, Ministry of Higher Education, 27-29 September (2017).
19. **Invited Speaker**, *MyQUEST Quality Evaluation System for Private Colleges*, Felda Residence Hotel, Kuala Terengganu, 14 March (2017).



20. **Invited Speaker**, *MyQUEST Quality Evaluation System for Private Colleges*, Kolej Universiti Yayasan Sabah, Kota Kinabalu, 12 March (2017).
21. **Invited Speaker**, *MyQUEST Quality Evaluation System for Private Colleges*, Ministry of Higher Education, Putrajaya, 7-8 March (2017).
22. **Invited Speaker**, *One Day Training on MyQUEST*, Grand Continental Hotel, Langkawi, 23rd October (2016).
23. **Invited Speaker**, *MyOBE Awareness Workshop*, GMI Bandar Baru Bangi, September (2016).
24. **Invited Speaker**, *OBE Awareness Workshop*, GMI Bandar Baru Bangi, 10-11th August (2016).
25. **Invited Speaker**, *One Day Training on MyQUEST*, Bangi-Putrajaya Hotel, 6th August (2016).
26. **Special Guest Speaker**, *Creativity and Innovation Segment*, Radio Nasional FM, Wisma Radio RTM, Angkasapuri, 2nd July (2016).
27. **Invited Speaker**, *MyOBE Awareness*, Faculty of Mechanical Engineering, UiTM Shah Alam, 23rd February (2016).
28. **Invited Speaker**, *Malaysian Rail Industry*, Destini Berhad, Shah Alam, 3rd December, (2015).
29. **Keynote Speaker**, *Aerospace Manufacturing Landscape in Malaysia*, Advanced Powder Metallurgy Symposium, Seberang Perai, Penang, 17th November, (2015).
30. **Keynote Speaker**, *Malaysian Aerospace Industry: Opportunities and Challenges*, AeroFest, USM, 21st November, (2015).
31. **Keynote Speaker**, *Characterization of Maerogel – A Rice Husk Derived Aerogel*, Advanced Materials Conference, Langkawi, 25-26th November, (2014).
32. **Invited Speaker**, *2-Day Awareness, and Implementation of OBE*, TATIUC, Kijal, (2013).
33. **Invited Speaker**, *Literature Review*, TATIUC, Kijal (2013)
34. **Invited Speaker**, *Teaching and Learning Workshop 3-Days*, TATIUC, Kijal (2013)
35. **Invited Speaker**, *Outcome Based Education Workshop 2-Days*, TATIUC, Kijal (2013)
36. **Invited Speaker**, *Seminar on Outcome Based Engineering Education*, Hilton Hotel, Kuching (2011)
37. **Invited Speaker**, *Workshop on Curriculum Review and OBE*, TATIUC Kuantan, (2011)
38. **Invited Speaker**, *Workshop on K-Chart*, BMI-UniKL, (2007)
39. **Invited Speaker**, *Workshop on K-Chart*, UniTEN, (2007)
40. **Invited Speaker**, *Workshop on Youth for Space*, ANGKASA, (2007)


UPM

1. **Invited Speaker**, *Preparation for Self-Assessment Report: Towards EAC Accreditation 2024*, Faculty of Engineering, UPM, March 9, (2023).
2. **Invited Speaker**, *P.Eng Clinic: Outcome Based PAE*, Faculty of Engineering, UPM, Feb 24, (2023).
3. **Invited Speaker**, *The Requirement of WP Complex Problem Solving*, Workshop Series II, Engineering Education Innovation Group (E2IG), Faculty of Engineering, UPM, March 25, (2022).
4. **Invited Speaker**, *Programme Self Review Report*, Centre for Quality Assurance, UPM, 26th November (2019)
5. **Invited Speaker**, *Outcome Based Education: Curriculum Design*, Centre for Academic Development, UPM, 6th February (2018).
6. **Invited Speaker**, *Auditing Enhancement Training on New MQA COPPA 2017*, Centre for Quality Assurance, UPM, 19th September (2017).
7. **Invited Speaker**, *University Risk Management*, UPM Kampus Bintulu, 12 April 2017.
8. **Invited Speaker**, *Route to Commercialization*, Innovation Open Day, Faculty of Engineering, UPM, 23rd September (2016).
9. **Invited Speaker**, *Effective Audit Report Writing*, Centre for Quality Assurance, UPM, 29th June (2016).
10. **Invited Speaker**, *Engineering Team @ MySET*, Seminar on The Route to Become a Chartered Engineer and Professional Engineer, Faculty of Engineering, UPM, 1st April (2016).
11. **Invited Speaker**, *Awareness on Outcome Based Education*, Fac. of Engineering, UPM (2010)
12. **Invited Speaker**, *General Awareness Training MS ISO 9001:2000*, Fac. of Engineering UPM, (2007)

Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Cooling Enhancement on Gas Turbine Engine Combustion Chamber (Leader)	RM18,000	2023-2025	Universiti Putra Malaysia Geran Putra Inisiatif (GPI) (9755500) (On-Going)
2.	Development of AERO+ISO GARDE: An Ecological Aerogel-based Thermal Insulating Coating for Industrial Applications (Leader)	RM2,800,000	2021-2024	MiGHT, CDTI Spain, & Ministry of Higher Education, Malaysia Spain Innovating Programme - MySIP (5540547) (On-Going)



3.	Inisiatif Pemerkasaan Penerbitan Jurnal Tahun 2020 (Leader)	RM6,843	2021-2022	Universiti Putra Malaysia (9044001) (Completed)
4.	Experimental Investigation on Gas Turbine Engine Performance running on alternative fuels (Leader)	RM25,000	2019-2022	Universiti Putra Malaysia IPS Grant, (9681600) (Completed)
5.	The Effect of Heat Transfer Enhancement in Tubular Heater of Stirling Engine for Waste Heat Recovery with Different Materials and Fins Attachments (Member)	RM118,000	2019-2021	FRGS/1/2018/TK07/ UPM/02/2 (5540072) (Completed)
6.	Development of Hybrid Powerplants for Multi-role Unmanned Aerial Systems (Member)	RM60,000	2018-2020	Universiti Putra Malaysia IPM Grant (9634100) (Completed)
7.	Kajian Pembangunan Modul Instrumen bagi Menilai Prestasi Sesebuah Institusi Pengajian Tinggi oleh Majikan (Leader)	RM420,221.84	2018-2019	Ministry of Higher Education Malaysia (6377900) (Completed)
8.	Strategic Partnership Travel Grant (Leader)	RM12,000 (EUR2500)	2018	A4U Alliance of 4 Spanish Universities (Completed) 
9.	Active Flow Control for Coanda Aircraft (Member)	RM60,000	2017-2019	Universiti Putra Malaysia IPM Grant (9537900) (Completed)
10.	Fire Testing of Aluminium Alloy with Carbon Fiber and Kenaf Sandwich Panel for Aerospace Application (Leader)	RM20,000	2017-2019	Universiti Putra Malaysia IPS Grant (9538500) (Completed)
11.	Thermodynamic and Economic Performance Optimization of an Organic Rankine Cycle System using Exhaust Heat of a Jet Engine Core (Member)	RM50,000	2016- 2019	Universiti Putra Malaysia IPM Grant (9498100) (Completed)
12.	Kajian Pembangunan Sistem Penarafan Universiti dan Universiti Kolej (SETARA) (Member)	RM2,100,000	2017-2017	Ministry of Higher Education Malaysia (6377900) (Completed)
13.	Sistem Penilaian Kualiti dan Kesetaraan Kolej Swasta (MyQUEST) (Member)	RM960,000	2017-2017	Ministry of Higher Education Malaysia (6377900) (Completed)
14.	Analysis on Correlations between Preparation conditions-microstructure Properties of Graphene Aerogels (Leader)	RM76,000	2016- 2019	Fundamental Research Grant Scheme (FRGS) TK05/UPM/02/7 (5524896) (Completed)
15.	Quick Release Disposable Safety Syringe (Leader)	RM230,000	2014- 2016	Prototype Research Grant Scheme (PRGS) TK01/UPM/02/1 (5530400) (Completed)

16.	Fundamental Study of Temperature and Heat Flux Measurements made in Aeronautical-Certified Propane-Air Burner (Leader)	RM86,500	2014- 2016	Fundamental Research Grant Scheme (FRGS) (5524611) (<i>Completed</i>)
17.	Modelling of Proof-of-Concept Prototyping of Coanda Jet Dynamics Performance Enhancement for Micro Air Vehicle (Leader)	RM8,000	2014- 2015	Universiti Putra Malaysia IPS Grant (9433914) (<i>Completed</i>)
18.	Detailed Investigation on the Factors Affecting Thermochromic Liquid Crystal Calibrations (Leader)	RM13,500	2014- 2015	Universiti Putra Malaysia IPS Grant (9429300) (<i>Completed</i>)
19.	Fire Testing (Leader)	RM10,000	2013-2014	Universiti Putra Malaysia Geran Sanjungan (6385800) (<i>Completed</i>)
20.	Establishing Surface Sensible Heat Transfer Properties Utilizing Thermochromic Liquid Crystal (Leader)	RM103,200	2011-2013	Experimental Research Grant Scheme (ERGS) (5527022) (<i>Completed</i>)
21.	Development of Inconel 718 Parts using Super Critical Carbon Dioxide (CO ₂) Debinding Technique for Potential Aerospace Industry Application (Member)	RM282,600	2011-2013	ScienceFund, MOSTI Project no. 03-03-02-SF0148 (<i>Completed</i>)
22.	Student-Centered Learning; UPM's Experience (Member)	RM50,230	2011-2012	Research University Grant Scheme, 06-03-11-1459RU, (<i>Completed</i>)
23.	Cooling enhancement on Aero Engine Combustor Liner (Leader)	RM45,580	2010-2012	Fundamental Research Grant Scheme (FRGS), MoHE Project no. 02-10-10-927FR (<i>Completed</i>)
24.	Fluids Mixing Characteristics for Aeroengine Combustion (Leader)	RM189,000	2009-2012	Research University Grant Scheme (RUGS), UPM (<i>Completed</i>)
25.	Measurement of Heat Transfer in Dimpled Channels using Thermochromic Liquid Crystals (Leader)	RM101,745 (AUS\$ 29,925)	2008-2009	UNSW Engineering-ADFA International Research Collaboration Scheme (<i>Completed</i>) 
26.	Fundamental Study of Vacuum Cooling Technique for Non-Porous Materials (Member)	RM105,000	2008-2009	Fundamental Research Grant Scheme (FRGS), MoHE Project no. 07-10-07-392FR (<i>Completed</i>)
27.	Adopting Eddy Viscosity Hypothesis in the Development of a Specific-Purpose Computer Code (Member)	RM80,000	2006-2009	Fundamental Research Grant Scheme (FRGS), MoHE Project no. 02-01-07-046FR (<i>Completed</i>)
28.	Advancement of Thermochromic Liquid Crystal Technique in Experimental Heat Transfer Testing on Aero Engine Components (Leader)	RM115,996	2006-2009	Sciencefund, MOSTI, Project no. 04-01-04-SF0601 (<i>Completed</i>)
29.	Experimental Investigation on the Hysteresis in Thermochromic Liquid Crystal for Heat Transfer Testing (Leader)	RM106,493	2006-2008	Fundamental Research Grant. Scheme, MoHE Project no. 01-01-07-032FR (<i>Completed</i>)

30. The Significance of Solar Radiation on Under Cowl Temperature (**Leader**) RM10,000 2005-2006 Universiti Putra Malaysia Skim Penyelidikan Pensyarah Lantikan Baru (*Completed*)
31. Significance of Solar Radiation on Undercowl Temperature (**Leader**) RM11,000 (GBP2,000) 2004-2005 Rolls-Royce plc. UK (*Completed*)



Awards/Recognition

No.	Name of Award	Title	Award Authority	Award Type	Year
1.	SILVER medal	Development of Aero+ISO Garde: An Ecological Thermal Insulating Coating for Industrial Application	Engineering Innovation & Exhibition, Faculty of Engineering, UPM	UPM 	2023
2.	BRONZE medal	Channel-Wing Aircraft	Engineering Innovation & Exhibition, Faculty of Engineering, UPM	UPM 	2023
3.	SARES Award	SARES Science Award	International Sustainable Aviation and Energy Research Society (SARES)	International 	2020
4.	GOLD MEDAL PUTRA InnoCreative Poster Competition	Immersive New Norm Learning Method Via Virtual Asynchronous & Synchronous Hybrid Approaches	PUTRA InnoCreative Carnival In Teaching and Learning, UPM	UPM 	2020
5.	PUTRA InnoCreative Award	Best InnoCreative Educator in Alternative Assessments	PUTRA InnoCreative Carnival In Teaching and Learning, UPM	UPM 	2019
6.	SARES Award	SARES Young Scientist Award	Sustainable Aviation Research Society (SARES)	International 	2019
7.	Silver Award	Sugar Rocket Propulsion	International Science Technology Engineering Mathematics Olympiad ISTEMO, Serdang, Malaysia.	International 	2018
8.	Bronze Medal	Development of Inconel 718 Parts using Super Critical Carbon Dioxide (CO ₂) Debinding Technique for Potential Aerospace Industry Application	25 th International Invention, Innovation & Technology Exhibition (ITEX), K.L Malaysia.	International 	2014
9.	Silver Medal Commercial - ization Category	A System to Administer an Outcome Based Education	International Conference & Exposition on Inventions of Institutions of Higher Learning (PECIPTA), KLCC, Malaysia	International 	2013

10.	Bronze Medal	Non-Penetrative Vacuum Blood Container	International Conference & Exposition on Inventions of Institutions of Higher Learning (PECIPTA), KLCC, Malaysia	International	2011	
11.	Bronze Medal Open Category	A System to Administer an Outcome Based Education	International Conference & Exposition on Inventions of Institutions of Higher Learning (PECIPTA), KLCC, Malaysia	International	2011	
12.	Silver Medal	SJ-Safety Syringe	BioMalaysia Conference & Exhibition, Malaysia	National	2011	
13.	Gold Medal	Multi-Purpose Safety Syringe	Research Innovation and Commercialization Exhibition (PRPI), Universiti Putra Malaysia, Malaysia	UPM	2011	
14.	Bronze Medal	Micro Gas Turbine Engine Performance Test Rig	International Engineering Invention and Innovation Exhibition (i-ENVEX), UniMAP	International	2011	
15.	Gold Medal	A System to Administer an Outcome Based Education	Malaysian Technology Exhibition (MTE), KLCC, Malaysia	National	2011	
16.	Silver Medal	Non-Penetrative Vacuum Blood Container	Malaysian Technology Exhibition (MTE), KLCC, Malaysia	National	2011	
17.	Silver Medal	A System to Administer an Outcome Based Education	Research Innovation and Commercialization Exhibition (PRPI), Universiti Putra Malaysia, Malaysia	UPM	2010	
18.	Gold Medal	Non-Penetrative Vacuum Blood Container	Research Innovation and Commercialization Exhibition (PRPI), Universiti Putra Malaysia, Malaysia	UPM	2010	
19.	Bronze Medal	Thermochromic Liquid Crystal Technique for Heat Transfer Measurements	Research Innovation and Commercialization Exhibition, Faculty of Engineering, Universiti Putra Malaysia, Malaysia	UPM	2006	
20.	Bronze Medal	Composite semi-elliptic suspension spring	Research Innovation and Commercialization Exhibition, Faculty of Engineering, Universiti Putra Malaysia, Malaysia	UPM	2006	
21.	Consolidation Prize	Sistem Pengurusan Kualiti – Putra 3Q	Pertandingan Konvensyen Kumpulan Meningkatkan Mutu Kerja (KMK), Negeri Selangor	National	2006	
22.	Edgell Sheppee Award	Travel Grant	Exeter College, University of Oxford	International	2001	

Professional Services/ Consultation

Professional Services

International

1. **President & Chairman**, SouthEast Asia Network on Aerospace Engineering (SANA)E (2024-2026).
2. **President**, SARES Malaysia Chapter, International Sustainable Aviation and Energy Research Society (SARES), (2023-To date).
3. **Executive Director**, Federation of Engineering Institution in Islamic Countries (FEIIC) Regional Office (2020-2022).
4. **Secretary General**, SouthEast Asia Network on Aerospace Engineering (SANA)E (2019-2023).
5. **Chair**, International Symposium on Sustainable Aviation (ISSA), Kuala Lumpur (2020).
6. **International Technical Committee Member**, International Symposium on Aircraft Technology, MRO and Operations (ISATECH), Amsterdam (2019).
7. **Advisory Board (Int. Scientific Committee)**, International Symposium on Sustainable Aviation (ISSA), Budapest (2019)
8. **Joint Chair**, 4th SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Kuala Lumpur (2018-2019).
9. **Executive Board Member**, SouthEast Asia Network in Aerospace Engineering (SANA)E, 2018-2020.
10. **International Technical Committee Member**, 2nd Asia Conference on Mechanical and Aerospace Engineering, Singapore (2018).
11. **International Technical Committee Member**, 3rd SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Kasetsart University, Bangkok Thailand (2018).
12. **International Technical Committee Member**, International Conference on Aeronautics, Astronautics, and Aviation (ICAAA), Chennai, India (2018).
13. **Committee Member**, FEIIC International Engineering Education and Research Convention (FICEER), Madinah, Saudi Arabia (2017).
14. **Chairman**, International AEROTECH VI Conference: Innovation in Aerospace Engineering and Technology, Kuala Lumpur (2016).
15. **Joint Chair**, World Research & Innovation Conf. on Engineering & Technology (WRICET), Langkawi (2016).
16. **Subject Matter Expert**, Rail signaling and communications training modules technology transfer with THALES companies in France, Portugal and Spain under the offset programme organised by Technology Depository Agency (TDA) MiGHT (2015).
17. **Programme Director**, Outreach to School III at Langkawi, Sponsored by BAe Systems UK (2015).
18. **Head of Delegation and Subject Matter Expert**, Technology transfer programme for human capital training modules for Rail rolling stock with China Southern Rail company and KTMB, A Project under the Technology Depository Agency (TDA), MiGHT (2014).
19. **Programme Director**, Outreach to School II at Langkawi, Sponsored by BAe Systems UK (2013).
20. **Committee Member**, International Engineering Education Convention (IEEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Madinah, Saudi Arabia (2013).
21. **Programme Director**, Outreach to School at Bintulu, Sponsored by BAe Systems UK (2012)
22. **Chief Operating Officer**, Aerospace Malaysia Innovation Centre (944751-A), An international organisation established together with AIRBUS, Rolls-Royce, MiGHT, CTRM and UPM, A company limited by guaranteed by the Malaysian Government (2011).
23. **Committee Member**, International Engineering Education Convention (IEEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Madinah, Saudi Arabia (2011).
24. **Chairman**, Conference on Aerospace and Mechanical Engineering (CAME), World Engineering Congress, Kuching, Sarawak (2010)
25. **Treasurer**, International Engineering Convention (InTEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Damascus, Syria (2009).
26. **Treasurer**, World Engineering Congress, Federation of Engineering Institutions in Islamic Countries (FEIIC), Penang (2008).
27. **Treasurer**, International Engineering Convention (InTEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Jeddah, Saudi Arabia (2007).
28. **Executive Committee Member**, Regional Office, Federation of Engineering Institutions in Islamic Countries (FEIIC) (2005 - present)

International: Journal Editor

1. Journal of Energy, ELSEVIER – Guest Editor (JCR Q1 – Top 10%)
2. Journal of Aeronautics, Astronautics, and Aviation, iPress, The Aeronautical and Astronautical Society of the Republic of China (ISSN: 1990-7710) – Associate Editor (ESCI, SCOPUS Index).
3. International Journal of Sustainable Aviation, Inderscience, (ISSN: 2050-0475) - Associate Editor (ESCI)
4. Journal of Aircraft and Spacecraft Technology, Science Publications, Dubai, UAE (ISSN: 2523-1197)
5. FEIIC International Journal of Engineering and Technology, Federation of Engineering Institution for Islamic Countries (FEIIC) (ISSN: 1823-1039)
6. Journal of Fluid and Structural Mechanics (JFSM), Scientific Academia (ISSN:2716-5809)

International: Journal Reviewer

1. Experimental Thermal and Fluid Science, ELSEVIER (JCR Q1)
2. Flow Measurement and Instrumentation, ELSEVIER (JCR Q1)
3. Journal of Aerospace Engineering, American Society of Civil Engineers (JCR Q2)

4. FEIC International Journal of Engineering and Technology, Federation of Engineering Institution for Islamic Countries (FEIC).
5. International Journal of Automotive and Mechanical Engineering, Universiti Malaysia Pahang (SCOPUS).
6. Energy, ELSEVIER (JCR Q1 – Top 10%)
7. Journal of Thermal Science and Engineering Application, ASME (JCR Q3)
8. International Journal of Sustainable Aviation, Inderscience (ESCI)
9. Journal of Aeronautics, Astronautics and Aviation (ESCI, SCOPUS)
10. Powder Technology, ELSEVIER (JCR Q1)
11. Aircraft Engineering and Aerospace Technology, EMERALD (JCR Q3)











National: Professional Body/ Society



1. **Auditor**, Malaysian Research Assessment (MyRA), Ministry of Higher Education, (2023-2025).
2. **Panel Evaluator**, HICOE, Ministry of Higher Education, (2022-2023).
3. **Panel Evaluator**, Konsortium Kecemerlangan Penyelidikan, Ministry of Higher Education, (2022-2023).
4. **Chair**, Working Committee for Equivalency Study – Teknisyen TLDM, E&Q Committee, Board of Engineers Malaysia (2022-2023)
5. **Board of Director**, Terengganu Science & Creativity Centre, PSKT (2023-2024)
6. **Auditor** Bahagian Governan, Audit Dalaman Autonomi Universiti, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, Malaysia, (2022-2025).
7. **Member**, Task Force on “Jurutera Miskin”, Board of Engineers Malaysia, (2021-2022).
8. **Board of Director**, Terengganu Science & Creativity Centre, PSKT (2021-2022)
9. **Evaluator**, HICOE, Ministry of Higher Education, (2021-2022).
10. **Head Facilitator**, TASK FORCE Penarafan IPT SETARA, Ministry of Higher Education, (2021-2022).
11. **Lead Analyst and Writer**, National Advanced Materials Technology Roadmap 2021-2030, Malaysia Industry-Government for Hight Technology (MIGHT), (2020-2021).
12. **Member**, Technical Working Committee, National Advanced Materials Technology Roadmap 2021-2030, Ministry of Science Technology, and Innovation (MOSTI), (2020-2021).
13. **Chair**, Working Committee for Equivalency Study, E&Q Committee, Board of Engineers Malaysia (2020-2021)
14. **Member**, Working Committee for Diploma by JPK, E&Q Committee, Board of Engineers Malaysia (2020-2021)
15. **Chair**, Working Committee for Pathway for Engineering Technologist to Graduate Engineer, E&Q Committee, Board of Engineers Malaysia (2019-2020)
16. **Member**, Working Committee for Customer Service Management, IT Committee, Board of Engineers Malaysia (2020-2021)
17. **Member**, Working Committee for Professional Assessment Examination, E&Q Committee, Board of Engineers Malaysia (2020-2021)
18. **Chair**, Working Committee for Marine Engineering Qualifications Equivalency Study, E&Q Committee, Board of Engineers Malaysia (2019-2020)
19. **Board of Director**, Terengganu Science & Creativity Centre, PSKT (2019-2020)
20. **Chair**, Working Committee for Aircraft Maintenance Engineering Qualifications Equivalency Study, Qualifications and Examination Committee, Board of Engineers Malaysia (2018-2019)
21. **Member**, Working Committee for Professional Assessment Examination PAE, Qualifications and Examination Committee, Board of Engineers Malaysia (2018-2020)
22. **Vice President**, Malaysian Society for Engineering & Technology (2018 – 2021)
23. **Lead Panel Auditor** Engineering Technology Accreditation Council ETAC, Board of Engineers Malaysia (BEM), (2018 – present)
24. **Member**, Examination and Qualification Committee, Board of Engineers Malaysia (2017 – present)
25. **Member**, Accreditation and Qualification Committee, Malaysian Society for Engineering and Technology (MySET) (2017 – present)
26. **Member**, Working Committee for Engineering Technology and Engineering Technician Programme Accreditation, Engineering Technology Accreditation Council (ETAC), Board of Engineers Malaysia, (2016 – 2018)
27. **Chair**, Activities and Welfare Standing Committee, Malaysian Society for Engineering & Technology (2015 – 2018)
28. **Chair**, Young Professional Group, Malaysian Society for Engineering & Technology (MySET) (2015 – 2018)
29. **Vice President**, Malaysian Society for Engineering & Technology (2015 – 2018)
30. **Lead Auditor**, Malaysia Quality Evaluation System (MyQuest), Ministry of Higher Education (MoHE) (2015)
31. **Committee Member**, Malaysian Aerospace industry inter-agency committee (MIGHT, PEMANDU, SMECorp) for the new EPP8 for Aerospace Manufacturing SME development and the ongoing EPP 5 and 7 under Business Services NKEA (2014 - 2015)
32. **Lead Auditor**, Malaysia Quality Evaluation System (MyQuest), Ministry of Higher Education (MoHE) (2011, 2013, 2015, 2017)
33. **Chairman**, Innovation Conference (INNOCONF), Shah Alam (2012)
34. **Vice President**, AKEPT Young Researcher Circle, Ministry of Higher Education (MoHE) (2011 – 2012)
35. **Chair**, Malaysian Aerospace Engineering Deans Council, Ministry of Higher Education (MoHE) (2009 – 2011)
36. **Lead Auditor**, Penarafan Institut Perguruan (IPGrating), Ministry of Education (MoE) (2013)
37. **Lead Auditor**, Penarafan Politeknik (Polyrate), Department of Polytechnic Education, Ministry of Higher Education (MoHE) (2013)

38. **Lead Auditor**, Sistem Pengurusan Kualiti Kolej Komuniti (MySPEKK), Department of Community college Education, Ministry of Higher Education (MoHE) (2013)
39. **Lead Panel Auditor** Engineering Accreditation Council EAC, Board of Engineers Malaysia (BEM), (2012 – present)
40. **Chair**, Young Professional Section, Malaysian Society for Engineering & Technology (mSET) (2009 – 2011)
41. **Treasurer**, AYRC X3: Young Researchers Conference, AKEPT, Ministry of Higher Education (MoHE) (2011)
42. **Committee Member**, Council of Engineering Deans, Ministry of Higher Education (MoHE) (2009 – 2011)
43. **Monitoring Committee**, LEADER in Aerospace Programme, MiGHT-Meteor (2010 – 2012)
44. **Lead Trainer**, Training Needs Analysis, Board of Engineers Malaysia (BEM) (2010)
45. **Panel**, HCD Aerospace Scholarship, MoHE (2010)
46. **Member**, National Aerospace Symposium (Aerotech III), K.L (2009)
47. **Treasurer**, Symposium of Engineering and Technology, Kuching (2008)
48. **Lead Auditor**, Internal Audit, BEM (2007 – present)
49. **Member**, Quality Committee, Board of Engineers Malaysia (2007 – present)
50. **Treasurer**, National Aerospace Symposium (Aerotech II), Putrajaya (2007)
51. **Secretary**, Symposium of Engineering and Technology, Putrajaya (2006)
52. **Lead Accreditation Panel** MQA for Aerospace Engineering and Technology (2005 – present)
53. **Treasurer**, National Aerospace Symposium (Aerotech), Putrajaya (2005)

Academic Involvement

No.	Item	Programme	Institution	Duration
1.	External Examiner and Assessor	Master of Engineering Technology (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)	 UniKL UNIVERSITI KUALA LUMPUR	2023
2.	Visiting Professor	B.Eng Aerospace Engineering (honours) Ho Chi Minh City University of Technology, Vietnam	 BK TPHCM	2023
3.	External Assessor/ Examiner	B.Eng Mechanical (Aeronautic) with honours, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM)	 UTM UNIVERSITI TEKNOLOGI MALAYSIA	2022
4.	Board of Studies Committee	Bachelor of Mechanical Engineering Technology (Gas Turbine), UniKL Malaysian Institute of Aviation Technology (MIAT)	 UniKL UNIVERSITI KUALA LUMPUR	2022
5.	External Examiner	Master of Science in Materials Engineering, Universiti Tun Hussein Onn (UTHM)	 UTHM Universiti Tun Hussein Onn Malaysia	2021-2022
6.	External Examiner	Master of Mechanical Engineering, Universiti Tun Hussein Onn (UTHM)	 UTHM Universiti Tun Hussein Onn Malaysia	2021-2022
7.	External Examiner	Master of Science in Sustainable Energy Engineering, Universiti Tun Hussein Onn (UTHM)	 UTHM Universiti Tun Hussein Onn Malaysia	2021-2022
8.	External Examiner and Visiting Professor	Aerospace Engineering Field, Faculty of Information System and Engineering, Management Science University	 msu management & science university	2020-2023
9.	External Examiner and Assessor	Master of Engineering Technology (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)	 UniKL UNIVERSITI KUALA LUMPUR	2021
10.	External Assessor	Foundation in Engineering, College of Engineering, UniTEN	 UNIVERSITI TENAGA NASIONAL	2021-2022

11.	External Examiner and Assessor	Diploma Aircraft Maintenance Engineering, Politeknik Banting, Selangor		2021-2022
12.	Board of Studies Committee	Doctor of Philosophy (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)		2021-2026
13.	Board of Studies Committee	Master of Engineering Technology (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)		2021-2026
14.	External Assessor/ Examiner	Master Science Aeronautical Engineering, School of Mechanical Engineering, Faculty Engineering, Universiti Teknologi Malaysia (UTM)		2021
15.	External Assessor/ Examiner	B.Eng Mechanical (Aeronautic), School of Mechanical Engineering, Faculty Engineering, Universiti Teknologi Malaysia (UTM)		2021
16.	External Assessor/ Examiner	PhD in Engineering, UniTEN		2019-2021
17.	External Examiner	Master of Science in Sustainable Energy Engineering, Universiti Tun Hussein Onn Malaysia (UTHM)		2020-2021
18.	External Examiner	B.Eng Tech Aeronautical (Aircraft Maintenance), Faculty of Mechanical and Manufacturing, Universiti Tun Hussein Onn Malaysia (UTHM)		2019-2021
19.	External Examiner	B.Eng Tech Aeronautical (Professional Piloting), Faculty of Mechanical and Manufacturing, Universiti Tun Hussein Onn Malaysia (UTHM)		2019-2021
20.	External Assessor/Examiner	Diploma Aircraft Maintenance Engineering, Politeknik Banting, Selangor		2019-2020
21.	External Examiner and Visiting Professor	Aerospace Engineering Field, Faculty of Information System and Engineering, Management Science University		2018-2020
22.	External Assessor/Examiner	Master Aeronautic, Faculty Engineering, Universiti Teknologi Malaysia (UTM)		2018-2019
23.	External Assessor/Examiner	B.Eng Tech Aircraft Manufacturing, Faculty of Mechanical and Manufacturing, Universiti Tun Hussein Onn Malaysia (UTHM)		2018-2020
24.	Board of Studies Committee	Master of Science in Aviation Management, UniKL Malaysian Institute of Aviation Technology (MIAT)		2018-2019
25.	External Assessor/Examiner	Diploma Mechanical Engineering, Politeknik Kota Bharu, Kelantan		2018-2020
26.	External Assessor/Examiner	B.Eng Tech Aeronautical (Aircraft Maintenance), Faculty of Mechanical and Manufacturing, Universiti Tun Hussein Onn Malaysia (UTHM)		2017-2019
27.	External Assessor/ Examiner	B.E Mechanical (Aeronautic), Universiti Teknologi Malaysia (UTM)		2016-2017
28.	Board of Studies Committee	Doctor of Philosophy (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)		2016-2017
29.	Board of Studies Committee	Master of Engineering Technology (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)		2016-2017

30.	External Assessor/ Examiner	B.E Mechanical (Aeronautic), Universiti Teknologi Malaysia (UTM)		2013-2014
31.	Industrial Advisor	B.E Mechanical (Aeronautic), Universiti Teknologi Malaysia (UTM)		2010 – 2012

UPM

1. **Lead Auditor**, Audit Autonomi, Universiti Putra Malaysia (2022).
2. **Lead Auditor**, SWA Akreditasi, Universiti Putra Malaysia, (2020).
3. **Associate Fellow**, Corporate Strategy and Communication, Vice Chancellor Office, UPM (2019-2022).
4. **Mentor**, Basic Education Course - Dr Ezanee Gires, CADe, UPM (2017).
5. **Panel Jury**, Vice Chancellor Fellowship Award (Teaching Category), UPM (2017-2018).
6. **Member**, UPM Transformation Committee 2017-2025.
7. **Committee Member**, Maklumbalas Laporan Swa Akreditasi, UPM (2017).
8. **Committee Member**, Waqaf Fasiliti Masjid, WAZAN UPM (2017).
9. **Committee Member**, Risk Management, UPM (2016 - 2017).
10. **Chairman**, PUTRA Bakti Central Committee, UPM (2016 - 2017).
11. **Advisor and Chairman**, TribunPutra Editorial Committee, UPM (2016 - 2017).
12. **Mentor**, Basic Education Course - Dr Syamimi Saadon, CADe, UPM (2016).
13. **Panel Evaluator**, Educational Programme, Centre of Quality Assurance, UPM (2016 - 2017).
14. **Co-ordinator**, Master of Innovation & Engineering Design, (2006 – 2009).
15. **Trainer**, ISO9001:2008 Quality Management System, Faculty of Engineering UPM, (2006 – 2011).
16. **Lead Auditor**, Internal Audit, Faculty of Engineering, UPM (2006 – 2009).
17. **Co-ordinator Internal Audit**, Quality Assurance Unit, Faculty of Engineering, UPM (2004 – 2009).

Community

1. **Yang diPertua** (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2021 - 2022).
2. **Yang diPertua** (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2020 - 2021).
3. **Yang diPertua** (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2019 - 2020).
4. **Yang diPertua** (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2018 - 2019).
5. **Yang diPertua** (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2017 - 2018).
6. **Committee Member**, Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar, Sepang (SAM SML), Selangor (2016 - 2017).
7. **Yang diPertua** (YDP), Jemaah Ibu bapa & Guru (JIBG), Sekolah Rendah/ Menengah Integrasi Tahfiz Ilmuwan, Bandar Baru Bangi, Selangor, (2012 - 2015).

Consultation Services

Lead Consultant

1. **2018** - Outreach to School V @ Butterworth, BAe Systems UK and MiGHT Academy, RM11,000
2. **2018** - Street Lantern Wind Tunnel Testing, Novabright Sdn. Bhd., RM8162
3. **2017** - Outreach to School V @ Labuan, BAe Systems UK and MiGHT-Meteor Advanced Manufacturing Sdn Bhd, RM9000
4. **2016** - Outreach to School IV @ Kuantan, BAe Systems UK and MiGHT-Meteor Advanced Manufacturing Sdn Bhd, RM12,500
5. **2012** - Kajian Rintis Implementasi Modul Inovasi, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM30,000
6. **2011** - Pembentukan Modul dan Kurikulum Inovasi, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM50,000
7. **2011** - Kursus Tambahan Graduan Kejuruteraan UniMAP, Universiti Malaysia Perlis, RM202,860
8. **2010** - Gun Tunnel Impact Test II, Agensi Nuklear Malaysia (MINT), RM2817.50
9. **2009** - Gun Tunnel Impact Test I, Agensi Nuklear Malaysia (MINT), RM2817.50
10. **2008** - Wind Tunnel Testing for Vortex Generator, School of Aerospace Engineering, USM, RM17,250
11. **2008** - Street Lantern Wind Tunnel Testing, Success Electric & Transformer Manufacturer Sdn. Bhd., RM8050
12. **2008** - Nikkon S419-150 HPS150W and S419-250 HPS250W Wind Tunnel Test, Success Electric & Transformer Manufacturer Sdn. Bhd., RM6440
13. **2008** - Wind Tunnel Testing for Street Lantern, Initial Electric Sdn. Bhd., RM8050
14. **2008** - Street Lantern Wind Loading Test, Vantage Group, RM8050

15. **2007** - Thermal and Flow Measurements on Beachcraft B200T Aircraft, Airod (M) Sdn. Bhd., RM6000

Member of Consultation Project

1. **2020** - Wind Loading Testing For Street Lantern Using Upm Close Loop Wind Tunnel, DLUX Elektrik Sdn. Bhd., RM8162
2. **2019** - Street Lantern Wind Tunnel Testing, Success Electric & Transformer Manufacturer Sdn. Bhd., RM8162
3. **2018** – Preliminary Study of CFD Analysis for Offshore Helideck, Prima Tech Solution, RM2,000
4. **2017** - Kajian Analisa Jurang Ketersediaan Infrastruktur dan Aplikasi Komunikasi Bagi Pelaksanaan Bandar Pintar, Kementerian Komunikasi dan Multimedia, RM490,000
5. **2017** - Pelaksanaan Sistem Pengurusan Kualiti MyQUEST 4, Jabatan Pengajian Tinggi, Kementerian Pendidikan Malaysia, RM910,600
6. **2014** - Pelaksanaan Sistem Pengurusan Kualiti MyQUEST 3, Jabatan Pengajian Tinggi, Kementerian Pendidikan Malaysia, RM750,000
7. **2013** - Pelaksanaan Sistem Pengurusan Kualiti MyQUEST 2, Jabatan Pengajian Tinggi, Kementerian Pendidikan Malaysia, RM688,000
8. **2013** - Kajian Pembangunan Instrumen Indeks Kepuasan Pelanggan dan Majikan, Kementerian Pengajian Tinggi, RM186,000
9. **2013** - Kajian Pembangunan Sistem Penarafan Kolej Komuniti – MysPeKK, Kementerian Pengajian Tinggi, RM226,000
10. **2013** - Kajian Pembangunan Instrumen Penarafan Institusi Pendidikan Guru, Kementerian Pelajaran Malaysia, RM460,000
11. **2012** - Pembinaan Modul Training of Trainers (ToT) dalam Bidang Project-Oriented Problem-Based Learning, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM170,000
12. **2010** - Kajian Pembangunan Sistem Pengukuran Kualiti MyQUEST, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM1,139,900
13. **2010** - Projek Perintis Membina Sistem Pengurusan ‘*Outcome Based Education*’, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM250,000
14. **2010** - Sistem Pengukuran Kualiti dan Kesetaraan Kolej Swasta, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM365,555
15. **2009** - Bird Impact Test and Fatigue Test on F5 Canopy as per ASTM F330-89, Airod (M) Sdn. Bhd. and Royal Malaysian Airforce, RM92,000
16. **2009** - Wind Loading Testing for Commercial Street Lantern Types PTEX STL VIII, IX, and XII, Permintex Electronic Sdn. Bhd., RM5600
17. **2008** - Assessing the Resonance Frequency for a Flat Plate Panel Mounting System on a MARITIME Helicopter using Modal Testing Technique, Centre for Aerospace Design (CAeD) Sdn. Bhd., RM6000
18. **2008** - Wind Loading Testing for Commercial Street Lantern Types PTEX STL I, II, III and IV, Permintex Electronic Sdn. Bhd., RM8050
19. **2008** - Wind Tunnel Testing for Street Lantern, PCO Lighting Sdn. Bhd., RM8050
20. **2007** - Commercial Street Lamp Wind Tunnel Testing, Muarlite Industry Sdn. Bhd., RM7,187.50
21. **2007** - Peranan PIMA Sebagai Badan Bertanggungjawab ke atas Institut Memandu di Malaysia, Persatuan Institut Memandu Malaysia, RM6210
22. **2006** - Flow Measurements Downstream of a Propeller Fan, OYL Research & Development Centre Sdn. Bhd., RM8050

Student Supervision

PhD			
No.	Name	Title	Status
1.	AbuBakar Isah (GS67722)	Experimental Investigations on the Effects of Flow Control Technology on Delta-Shaped Wing Stability and Control Configuration (SACCON) at Low Reynolds Number	On-Going Main-Supervisor
2.	Zubair Faramir Bin Zainul Fadziruddin (GS67902)	Establishing An Innovative STI Framework Using TRIZ Methodology for Manufacturing Sectors in Malaysia’s Development Expenditure	On-Going Main-Supervisor
3.	Muhammad Fitri Mohd Zulkeple (GS63187)	Impingement Cooling Heat Transfer Enhancement	On-Going Main-Supervisor
4.	Nik Kechik Mujahidah Nik Abdul Rahman (GS54734)	Waste Heat Recovery using Stirling Engine Research	On-Going Co-Supervisor
5.	Mohd Edyazuan Azni (GS54408)	Preparation and Characterization of Hybrid Bio-Briquettes from Kenaf and Napier Grass	On-Going Co-Supervisor
6.	Norrahim Abu Bakar (GS47740)	Natural Bio-Composite	On Going Co-Supervisor

7.	Abdul Raof Zahari (GS43553)	Development of Regulation Guideline For Future Suborbital Flight Operation In Malaysia	Defer Co-Supervisor
8.	Ismail Al-Masalha (GS52580)	Investigation on Solar PV Thermal Performance using Porous Media	Thesis Submitted Co-Supervisor
9.	Michael Chong Vui San (GS62787)	Assessment of thermal radiation models performance for different fuel variants	Thesis Submitted Co-Supervisor
10.	Nur Marini Zainal Abidin (GS52504)	Application of Natural Fibre Composite in UAV Wings using Finite Element Analysis	Thesis Submitted Co-Supervisor
11.	Ayad Farag Abd Allah Diabis (GS56867)	Numerical and Experimental Investigation of Geometrical Parameters on Heat Transfer and Pressure Drop Characteristics by Installing Lobe-Swirl Generator Prior the Optimum Channel using SiO ₂ -Nanofluid	Thesis Submitted Main Supervisor
12.	Yazan Sofyan Mohamed Altarazi (GS52811)	Experimental Investigation on Gas Turbine Engine Performance	2023 Graduated Main Supervisor (Joint Award)
			
13.	Sadeq Rashid Nfawa (GS51860)	Numerical and Experimental Study of Nanofluid flow and Heat Transfer Characteristics in a Corrugated Channels with Vortex Generators	2023 Graduated Main Supervisor
14.	Muhammad Imran Najeeb (GS52215)	Malaysian Pineapple (Yankee) Leaf Fiber Composites Damage Investigation Using Non-Destructive Techniques	2022 Graduated Co-Supervisor
15.	Farah Syazwani Shahar (GS52900)	Investigation Of Characteristics Of Kenaf/Pla Filament For Ankle Foot Orthosis Using Fused Deposition Modelling	2022 Graduated Co-Supervisor
16.	Tamil Moli A/P Loganathan (GS52316)	Characterization Of Cyrtostachys Renda / Kenaf (Hibiscus Cannabinus L.) / Multi-Walled Carbon Nanotubes / Bio-Phenolic Hybrid Composites For Aircraft Tray Tables	2022 Graduated Co-Supervisor
17.	Noorshazlin Binti Razali (GS42466)	Low Velocity Impact Characterisations Of Flax/Kenaf/Glass Fibre Hybrid Composites	2021 Graduated Co-Supervisor
18.	Albuhamdan Sadeq Salman Abed (GS51110)	Heat Transfer And Turbulent Nanofluid Flow Investigation Over Microscale Backward-Facing Step	2021 Graduated On Time Main Supervisor
19.	Muhamad Hasfanizam Mat Yazik. (GS47710)	Thermomechanical Properties Of Shape Memory Epoxy Filled Nanoclay/Carbon Nanotube Hybrid Composites For Aircraft Morphing Wing Application	2021 Graduated On Time Co-Supervisor
20.	AlBehadili Ali Kareem Hilo (GS50612)	Nanofluid Flow And Heat Transfer In Corrugated Backward-Facing Step Channel Using Ethylene Glycol As Based Fluid	2021 Graduated On Time Main Supervisor
21.	Tabrej Khan (GS49088)	The Effect of Orientations on Mechanical Properties of Sodium Hydroxide Treated Kenaf/Jute Hybrid Reinforced Epoxy Hybrid Composites for Aerospace Applications	2020 Graduated On Time Co-Supervisor
22.	Syafiqah Nur Azrie Bt Safri (GS42459)	Mechanical Thermal and Impact Damage Characterization of Hybridised Long Sugar Palm/Glass Fibre Reinforced Polymer Composites	2019 Graduated On Time Co-supervisor
23.	Ibrahim Mohammed (GS45161)	Development of Hybrid Composite Fire Blanket for Aeroengine Application	2018 Graduated On Time Main Supervisor

24.	Ain Umaira Binti Md. Shah (GS42642)	Low Velocity Impact Sandwich Structure Bamboo for Aerospace Applications	2018 Graduated On Time Co-Supervisor
25.	Kafel Abdul Azeez Mohammed (GS40375)	The Effect of Nanofluid on the Performance Efficiency of the Heat Exchanger	2018 Graduated On Time Main Supervisor
26.	Muhammad Ibrahim Nadiir Bheekhun (GS32468)	Parametric Analyses for a Single Layered Aerogel-Based Coating using Thermal Spray for Aerospace Applications	2017 Graduated Main Supervisor
27.	Riyadh Ibraheem Ahmed (GS38458)	Modeling and Proof Concept of Prototyping of Coanda Jet Lift to Drag Ratio Enhancement for Wind Turbine and Micro Air Vehicle	2016 Graduated On Time Main Supervisor
28.	Ayad Abed Rahman (GS22313)	The Influence of Impact on Composite Ceramic/ Aramid Armour Systems	2012 Graduated On Time Main Supervisor
29.	Ashgar Pishgahi (GS16861)	Flow and Heat Transfer for a Tangential Jet Flow in Sudden Expansion Channel	2012 Graduated Co-Supervisor

MS with Thesis

No.	Name	Title	Status
1.	Muhammad Hafizal Hamidon (GS50158)	Investigation of Mechanical Properties and Damage Progression of Treated/Untreated Kenaf Hybrid Composites for Potential Application on EC-130 Helicopter Door	On Going Co-Supervisor
2.	Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200)	Coconut Shell Powder Reinforced Polypropylene Application of Marine	Thesis Submitted Co-Supervisor
3.	Ali Ahmad Mazlan (GS52223)	Low Velocity Impact Analysis Of Pineapple Leaf/Kenaf Fibre-Reinforced Vinyl Ester Hybrid Composites For Structural Applications	2021 Graduated Co-Supervisor
4.	Seri Nur Zumaimi binti Ahmad Nadzri (GS54012)	Development Of Kenaf/Glass Fibre Hybrid Composites For Potential Use In Automotive Industry	2021 Graduated Co-Supervisor
5.	Nur Athirah Mohd Nasir (GS46939)	Thermodynamic And Sustainability Analysis Of An Organic Rankine Cycle System For Turbofan Engine	2021 Graduated Co-Supervisor
6.	Muhammad Fitri Mohd Zulkeple (GS49510)	Impingement Cooling Heat Transfer Enhancement	2020 Graduated Main-Supervisor
7.	Muhammad Jabir Suleiman @ Ahmad (GS37574)	The Effect of Palm Oil Based Binder Ratio on Inconel 718 Metal Injection Molding Technique	2019 Graduated Main Supervisor
8.	Muhammad Faizzuddin Bin Ismail (GS45839)	Low Velocity Impact Analysis of Glass/Kenaf Hybrid Composites for Aerospace Structural Applications	2019 Graduated Co-Supervisor
9.	Khairul Izwan Ismail (GS47447)	BioComposite Material Reinforced Epoxy Composite Modified by Carbon Nanotube	2018 Graduated Co-Supervisor
10.	Ariff Farhan Mohd Nor (GS47435)	Enhancement of Low Velocity Impact Properties of Bamboo/ Glass Fibre Hybrid Composites Using Carbon Nanotubes for Aerospace Structural Applications	2018 Graduated Co-Supervisor
11.	Ahmad Mustafa Rayney Azmi (GS47432)	Design and Development of a Bulletproof Vest using Kenaf Fibre and X-Ray Films - Waste to Wealth	2018 Graduated Co-Supervisor
12.	Bootan Sherzad Qader (GS45642)	Numerical Investigation of Solar Air Collector	2018 Graduated

MS with Thesis			
No.	Name	Title	Status
			Co-Supervisor
13.	Mohd Nasri Ishak (GS42540)	Development of Multi-Purpose Safety Syringe	2018 Graduated
			Main Supervisor
14.	Pauline Epsipha (GS38494)	A Numerical Study of Performance Characteristic In Transonic Axial Compressor Rotor Blade Using Circular Jets	2017 Graduated
			Co-Supervisor
15.	Hayder Abdullah Luaibi Alrazen (GS38374)	Numerical Simulation of the Effect of Combination of CNG, Diesel and H ₂ usage on the 4 Stroke Engine	2016 Graduated
			Co-Supervisor
16.	Ezanee Gires (GS24584)	Performance Testing of a Small Gas Turbine Engine Fuelled by Biodiesel and Kerosene Based Fuels	2013 Graduated
			Main Supervisor
17.	Halid Agil (GS19157)	Mitigation of Rain Attenuation in Equatorial Region for MEASAT-2 and MEASAT-3 using Orbital Diversity	2012 Graduated
			Co-Supervisor
18.	Thamer H. Ahmed (GS19494)	Synthesis and Characterization of Carbon Nanotubes in a Vertical Floating Catalyst Chemical Vapour Deposition Reactor	2012 Graduated
			Co-Supervisor
19.	Helmey Ramdhaney Mohd Saiah (GS17732)	Effects of Non-Isothermal Single Circular Impinging Jet on a Quasi-Adiabatic Flat Plate	2011 Graduated
			Main Supervisor
20.	Norzihan Abdullah @ Aziz (GS19903)	Development of a New Approach for Aircraft Component Modelling using CAD Technique	2011 Graduated
			Main Supervisor
21.	Alaa Raad (GS22241)	Effect of Vibration Frequencies on the Welding Properties of Rectangular Mild Steel Plate	2011 Graduated
			Co-Supervisor
22.	Amar Ali Hussein (GS21324)	Numerical Performance Evaluation of Plain Fin Tube Heat Exchanger Under Frosty Conditions	2010 Graduated On Time
			Main Supervisor
23.	Abu Zaid Bakar (GS17159)	Stability and Control Assessment of an Aerial Target Drone Based on a Scale Model of A-4 Skyhawk Jet Fighter	2010 Graduated
			Main Supervisor
24.	Zhang Si Wei (GS18447)	Experimental Investigation of a Vacuum Cooling System	2010 Graduated
			Co-Supervisor
25.	Nadia Abdullah (GS16827)	Effect of Film Thickness on Narrowband Thermochromic Liquid Crystal Calibration	2009 Graduated
			Main Supervisor
26.	Mohamed Abdel Badie Mohamed (GS15447)	Design and Finite Element Analysis of Hybrid Carbon/Glass Fiber-Reinforced Epoxy Composite Automotive Drive Shaft	2007 Graduated
			Co-Supervisor
27.	Gehad Goudah Soliman Mosleh Hamdan (GS15568)	Static and Dynamic Mechanical Performance of Composite Elliptic Springs for Vehicle Suspension	2007 Graduated
			Co-Supervisor
28.	Irfan Abd. Rahim (GS12743)	The Development of an Experimental Facility of a Tangential Jet Flow in a Sudden Expansion Channel	2006 Graduated
			Co-Supervisor
MS without Thesis (Main Supervisor)			
No.	Name	Title	Status
1.	Sheyshhindth Balakrishnan (GS65146)	Supersonic cavity flow analysis for different cavity geometries	2023 On Going
2.	Haida Visna Binti Bakarudin (GS55379)	Design and Development of Plant Bedding Compartment for Vertical Farming Application	2021 Completed
3.	Tan Kiah Chuan (GS50248)	Forest Wind Speed Detector Sensor	2019 Completed

MS without Thesis (Main Supervisor)			
No.	Name	Title	Status
4.	Yazan Sofyan Mohamed Altarazi (GS46573)	Performance of Small Turbojet Engine using Palm-Oil Biodiesel-Jet a Blend	2018 Completed
5.	Aiman Saleh Alammari (GS43389)	Design of Smoke and Fume Extractor for Laboratory Application	2018 Completed
6.	Muhammad Hannan Baharin (GS43734)	Design and Development of Self-Charging Hybrid Power Bank	2017 Completed
7.	Mohd. Amirfaris Yazid (GS42808)	Numerical Analysis of Metal tubes Subjected to Oblique Loading using Finite Element Analysis	2017 Completed
8.	Muhammad Khalil Zakaria (GS32370)	Design Analysis of Mold and Fabrication of Dead End Clamp	2013 Completed
9.	Ahmad Fadzli Che Yaacob (GS31141)	Optimisation of Dead End Clamp for High Tension Power Cable	2013 Completed
10.	Mohd. Yusairi Mohd Yusof (GS28677)	Design Analysis of Dead End Clamp	2012 Completed
11.	Adi Azriff Basri (GS26971)	Safety Syringe Product Development	2011 Completed
12.	Siti Zuraifah Mohd Zabidi (GS26564)	Design and Development of Safety Syringe	2010 Completed
13.	Siti Aishah Adam (GS21568)	Design and Fabrication of Vacuum Chamber and Capping System for Pharmaceutical Application	2009 Completed
14.	Umni Noor Nazahiah Abdullah (GS20240)	Blood Container, Capping and Vacuuming Parts Modular Concept Design and Development for Vacuum Blood Container	2009 Completed
15.	Hafizah Mohd Nasir (GS19523)	Thermal Infrared Sensor Characteristic: A Study on the Colour Temperature and Emissivity Utilizing Blackbody Fitting Method	2008 Completed
16.	Marini Abdul Hamid (GS16870)	TNBMON: TNB Substation Monitoring System	2008 Completed
17.	Rashidi Rahim (GS17861)	Design and Development of a New Composite Firewall for Light Sport Category Aircraft	2008 Completed
18.	Jaronie Mohd Jani (GS17482)	Power Train-Dyno Management System	2007 Completed
19.	Mohd. Azwir Azlan (GS15904)	Design and Develop a Lubricant Test Device for CVT Application	2007 Completed













Student Examination (Internal/External Examiner/ Chairman)


Doctor of Philosophy			
No.	Name	Title	Year
1.	Farid Bin Bajuri (GS54838) Universiti Putra Malaysia (Chairman)	Design of Radiation Detection System for Passive Dosimetry during Extravehicular Activity at International Space Station	2024
2.	Nurhana Mohamad Rouyan (GS46103) Universiti Putra Malaysia (Chairman)	Robust Flight Control for Nonlinear Aircraft	2023
3.	Ashraf Amer Abbas Universiti Kebangsaan Malaysia (External Examiner)	Study of Flow Structure with Different Surface Roughness Features	2023
4.	Muhamad Syukri Mohamed Shamsuddin Universiti Sains Malaysia (External Examiner)	The Design and Development of Hydrokinetic Turbine for River Application in Malaysia	2023
5.	Hayder Alrazen 45194852 University of Queensland, Australia (External Examiner)	Experimental and Numerical Investigation of Converting LDPE Polymer to Blended Diesel Fuel	2023



MS without Thesis (Main Supervisor)			
No.	Name	Title	Status
6.	Mahir Hassan Mohamed Ibrahim Universiti Teknologi Malaysia (UTM) (External Examiner)	Improved Framework for Adopting Rapidly Emerging Technology Items During the Developmental Phase of the System Engineering	2023 
7.	Norzaima Nordin GS48884 Universiti Putra Malaysia (UPM) (Chairman)	Reduced Order Model of Geometrically Nonlinear Aeroelastic System of a Highly Aspect Ratio Wing	2023
8.	Mohd Badrul Salleh Universiti Sains Malaysia (External Examiner)	Performance of Hydrokinetic Turbine with Deflectors for Sustainable Energy Application in Malaysia	2021 
9.	Siti Norbaya Binti Daud Universiti Teknologi Malaysia (UTM) (External Examiner – resubmission)	The Relationship between Leadership Skills, Competencies, Characters and Energizing Entrepreneurial Among Engineering Students	2021 
10.	Ahmad MR N Alrashidi GS43323 Universiti Putra Malaysia (UPM) (Internal Examiner)	Potential Alternative Fuel by Combustion of Biofuel and Plasma Technology in the Operation Jet Engine	2020
11.	Norhafizah Mohamad Dasuki (GS39366) Universiti Putra Malaysia (UPM) (Internal Examiner)	Conceptual Development of Passenger Standing Cabin Design for Commercial Transport Aircraft: A Malaysian Case Study	2020
12.	Lim Chong Lye (GS32454) Universiti Putra Malaysia (UPM) (Internal Examiner)	Cryogenic Pipe Flow Simulation for Liquid Nitrogen under Steady State Conditions	2019
13.	Negin Ozve Aminian (GS34666) Universiti Putra Malaysia (UPM) (Internal Examiner)	Conceptual Development of an Ergonomics Passenger Cabin Design for Potential Commercial Urban Transport Airship in Malaysia	2019
14.	Siti Norbaya Binti Daud Universiti Teknologi Malaysia (UTM) (External Examiner)	The Relationship between Leadership Skills, Competencies, Characters and Energizing Entrepreneurial Among Engineering Students	2019 
15.	Ummi Noor Nazahiah Abdullah Lappeenranta-Lahti University of Technology (LUT), Finland (External Examiner - Opponent)	Design and Development Methods for a Remote-Operated off-road Vehicle Interface	2019 
16.	Ahmad MR N Alrashidi GS43323 Universiti Putra Malaysia (UPM) (Internal Examiner)	Potential Alternative Fuel by Combustion of Biofuel and Plasma Technology in the Operation Jet Engine	2019
17.	Siti Nur Mariani Mohd Yunos Universiti Tun Hussein Onn Malaysia (UTHM) (External Examiner)	A Multidisciplinary Assessment and Optimization of Synthetic Paraffinic Kerosene Fuel	2018 
18.	Wan Muhammad Syahmi Wan Fauzi Universiti Teknologi MARA (UiTM) (External Examiner)	Development of Information Architecture and Novel Simulation System for Pillion Assessment Workstation	2018 
19.	Norhafizah Mohamad Dasuki (GS39366) Universiti Putra Malaysia (UPM) (Internal Examiner)	Conceptual Development of Passenger Standing Cabin Design for Commercial Transport Aircraft: A Malaysian Case Study	2018
20.	Lim Chong Lye (GS32454) Universiti Putra Malaysia (UPM) (Internal Examiner)	Cryogenic Pipe Flow Simulation for Liquid Nitrogen under Steady State Conditions	2018
21.	Negin Ozve Aminian (GS34666) Universiti Putra Malaysia (UPM) (Internal Examiner)	Conceptual Development of an Ergonomics Passenger Cabin Design for Potential Commercial Urban Transport Airship in Malaysia	2018

MS without Thesis (Main Supervisor)			
No.	Name	Title	Status
22.	Alsanossi Mohamed Aboghrara (GS35903) Universiti Putra Malaysia (UPM) (Internal Examiner)	Numerical and Experimental Investigation to Development of a Solar Air Heater with Impinging Jets on Corrugated Plate	2017
23.	Aidin Ghavamian (GS39914) Universiti Putra Malaysia (UPM) (Chairman)	Numerical Simulation and Experimental Investigation of Ultrasonic Guided Wave Propagation on Pipes with Defects	2018
24.	Ali Mohammed Hussein Mohsen Universiti Tenaga Nasional (UniTEN) (External Examiner)	Experimental and Numerical Study on High-Speed Transient Flow in Shock Tunnel and Gun Tunnel	2017
25.	Syed Mohammed Aminuddin Aftab Universiti Putra Malaysia (UPM) (Chairman)	Experimental and Numerical Study Implementing Humpback Whale Leading Edge Tubercles	2017
26.	Ang Kiang Long Universiti Teknologi Malaysia (UTM) (External Examiner)	Mechanical and Ballistic Properties of a Polybutadiene for Meteorological Sounding Rocket Application	2016
27.	Mohd Salahuddin bin Mohd Basri Universiti Putra Malaysia (UPM) (Internal Examiner)	Development of Rice Husk Ash-Based Geopolymer Binder for Fire Resistant Coating and Panel using Statistical Approach	2016
28.	Roslina Mohamad Universiti Putra Malaysia (UPM) (Chairman)	Online Bit Error Rate Stopping Turbo Iteration Criterion	2016
29.	Zurriati Mohd Ali Mechanical Engineering Universiti Teknologi MARA (UiTM) (External Examiner)	Effect of Canard Configuration on the Aerodynamics of Blended Wing Body at Low Mach Number	2015
30.	Mohammed Abed Ahmed Mechanical Engineering Universiti Tenaga Nasional (UniTEN) (External Examiner)	Numerical and Experimental Investigations on the Flow and Heat Transfer of Nano fluids in Corrugated Channels	2014
31.	Kannan M. Munisamy Mechanical Engineering Universiti Tenaga Nasional (UniTEN) (External Examiner)	Investigation of Flow and Heat Transfer in Brake Disk Rotor Designs	2012
32.	Md. Moslemuddin Fakir Aerospace Engineering Universiti Putra Malaysia (UPM) (Chairman)	Finite Element and Differential Quadrature Methods for Heat Distribution in Rectangular Fins	2009
Master of Science			
No.	Name	Title	Year
1.	Muhamad Azim Azhad bin Shahrin GS62985 Universiti Putra Malaysia (UPM) (Chairman)	Wavenumber response function for adaptive mode isolation in ultrasound wavefield imaging of aerospace thin-wall panels	2023
2.	Muntasser Abdulabbas Mossa GS47857 Universiti Putra Malaysia (UPM) (Internal Examiner)	An Experimental Study of the Performance of a Homogeneous Charge Compression Ignition (HCCI) Engine Fuelled with Used Cooking Oil Based Biodiesel	2019
3.	Ahmad Fikri Bin Baharan UniKL (External Examiner)	Fixed Speed Pump Turbine Runner with Improved Operational Flexibility Using Flapping Blade Mechanism	2018
4.	Roger Ho Universiti Sains Malaysia (External Examiner)	Experimental and Simulation Study of Low Frequency Synthetic Jet Cooling Performance	2017

Master of Science			
No.	Name	Title	Year
			
5.	Ziad Abdul Awal Universiti Teknologi Malaysia (UTM) (External Examiner)	The Effects of Idiosyncratic Gust Wind on Helicopter Main Rotor Air Flow Physiognomies	2017 
6.	Radhwan Ali Abd Alreda Universiti Putra Malaysia (UPM) (Internal Examiner)	Numerical Simulation on the Effect of Mixing the LPG, Hydrogen and Diesel Fuel on the Combustion Characteristic and emission Levels in a Diesel Engine	2017
7.	Sadeq Rashid Nfawa Universiti Putra Malaysia (UPM) (Internal Examiner)	Heat Transfer Enhancement of Nanofluids in a Double Pipe Heat Exchanger with Rod Inserts	2016
8.	Ong Seong Shin Multimedia University (MMU) (External Examiner)	Flameless Oxidation in Toroidal Combustion Chamber for Reduced Nitrogen Oxide Formation	2016 
9.	Wan Muhammad Syahmi Wan Fauzi Universiti Teknologi MARA (UiTM) (External Examiner)	Human Machine Environment Interface Element for Dynamic Motorcycle Test Rig	2015 
10.	Nurnida Elmira Othman Universiti Teknologi MARA (UiTM) (External Examiner)	Design and Development of a Mouth Spacer for Dental Surgery Applications	2014 
11.	Fauzi Hussin Universiti Sains Malaysia (USM) (External Examiner – reviva)	An Experimental Study of Oscillating Sub-Boundary Layer Vortex Generators Application on A Wing’s Flap (re-viva)	2014 
12.	Nazmi Che Ismail Universiti Sains Malaysia (USM) (External Examiner)	Numerical and Experimental Study on Single Bubble Rising Behaviour with and without Heat Transfer Effect (re-viva)	2014 
13.	Fauzi Hussin Universiti Sains Malaysia (USM) (External Examiner)	An Experimental Study of Oscillating Sub-Boundary Layer Vortex Generators Application on A Wing’s Flap	2013 
14.	Nazmi Che Ismail Universiti Sains Malaysia (USM) (External Examiner)	Numerical and Experimental Study on Single Bubble Rising Behaviour with and without Heat Transfer Effect	2013 
15.	Ting Ming Chung Universiti Sains Malaysia (USM) (External Examiner)	Numerical Study on Hydrodynamic Performance of USM Shallow Underwater Glider Platform	2012 
16.	Sevda Ahmadian Universiti Putra Malaysia (UPM) (Internal Examiner)	Pulse Jet Investigation	2012
17.	Mohd. Fairuz Zakaria Universiti Sains Malaysia (USM) (External Examiner)	3D Numerical Simulation on Aerodynamic Performance of Flapping Using Skin Flexibility	2012 
18.	Khairul Ikhsan Yahaya Universiti Sains Malaysia (USM) (External Examiner)	Conceptual Design of Small UAV, School of Mechanical and Aerospace Engineering	2011 
19.	Amir Aziz Universiti Teknologi Malaysia (UTM) (External Examiner)	Solid Propellant Propulsion	2011 

Master of Science			
No.	Name	Title	Year
20.	Nur Farahain Zulkefli Universiti Sains Malaysia (USM) (External Examiner)	A Numerical Study of Oscillating Sub-Boundary Layer Vortex Generators (SBUG) Application on a Wing's Flap	2011 
21.	Aydin Khiabani Universiti Putra Malaysia (UPM) (Internal Examiner)	Design of Portable Shell and Tube Heat Exchanger for Solar Powered Water Distiller	2010
22.	Mahmod Abd. Hakim Universiti Putra Malaysia (UPM) (Internal Examiner – reviva)	One-Dimensional Higher-Order Compact Method Based on Advection Upstream Splitting Method (AUSM) Scheme for Solving Euler's Equations (re-viva)	2010
23.	Zuliana Ismail Universiti Putra Malaysia (UPM) (Chairman)	Attitude Control of Small Satellites with Reaction Wheels	2009
24.	Abolfazl Sousanabadi Farahani Universiti Putra Malaysia (UPM) (Internal Examiner)	Simulation of Airflow and Aerodynamic Forces Acting on a Commercial Turbine Ventilator	2009
25.	Ali Mohamed Wahdad Universiti Putra Malaysia (UPM) (Internal Examiner)	Effects of Selected Shading Devices on Office Room Temperature Distribution	2008
26.	Mahmod Abd. Hakim Universiti Putra Malaysia (UPM) (Internal Examiner)	One-Dimensional High Order Compact Method Based on AUSM Scheme for Solving Euler Equations	2008
27.	NoorFaizal Yidris Universiti Putra Malaysia (UPM) (Internal Examiner)	Analytical Crush Simulations of a Composite UAV Fuselage Section and Experimental Correlation	2007
28.	Siavash Talebi Taher Universiti Putra Malaysia (UPM) (Internal Examiner)	A New Composite Energy-Absorbing System for Aircraft and Helicopters Sub-Floor	2005
29.	Azizuddin Abd Aziz Universiti Putra Malaysia (UPM) (Internal Examiner)	Comparison between Unitary and Central Cooling system at Faculty of Engineering	2005
30.	Hakim Samawi Sultan Al-Jibori Universiti Putra Malaysia (UPM) (Internal Examiner)	Towards an Optimum Composite Energy Absorption System	2004
31.	Saeed Eslamian Universiti Putra Malaysia (UPM) (Internal Examiner)	Fretting Fatigue Crack Nucleation of 5083-H321 Aluminium Alloy	2004

INTELLECTUAL PROPERTY

Patent Granted

- 2018, Oct 16. Malaysia Patent Granted no. MY-168256-A, Non-penetrative blood container and apparatus for vacuuming the same. **A.R Abu Talib**, M.S Yahaya, U.N.N Abdullah, S.A Adam, M.N Abdul Rahman.
- 2018, Sept 4. Malaysia Patent Granted no. MY-167522-A, Safety Syringe. **A.R Abu Talib**, A.A Basri, S.Z Mohd Zabidi, M.S Yahaya, K. Mat Isa.
- 2017, July 31. Malaysia Patent Granted no. MY-163006-A, A System to Administer an Outcome Based Education, M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan.
- 2017, Jan 10. US Patent Granted no. US9539399 B2. Safety Syringe. **A.R Abu Talib**, A.A Basri, S.Z Mohd Zabidi, M.S Yahaya, K. Mat Isa.
- 2016, Sept 2. Japan Patent Granted no. JP5995844, A System to Administer an Outcome Based Education, M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan.
- 2015, Feb 10. US Patent Granted no. US8950617 B2. Non-penetrative blood container and apparatus for vacuuming the same. **A.R Abu Talib**, M.S Yahaya, U.N.N Abdullah, S.A Adam, M.N Abdul Rahman.
- 2011, Australia Patent Granted no. 2011271787, A System to Administer an Outcome Based Education, M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan.

Patent Filed

1. R. Ibrahim, M.A Ahmad, M.J Suleiman, N. Johari, **A.R Abu Talib**, (2013), Injection Molding using a Novel Binder System Based on Palm Oil Derivatives, Patent Pending MyIPO PI2013004110.
2. **A.R Abu Talib**, A.A Basri, S.Z Mohd Zabidi, M.S Yahaya, K. Mat Isa (2011), Multi-Purpose Safety Syringe, Patent Pending, MyIPO PI2011700110, Patent Cooperation Treaty (PCT) PCT/MY2012/000202, Indonesia Patent POO201400215, Australia Patent 201228100794, South Africa 2014100794, India Patent 149/DELNP/2014, 2014-520154 Japan Patent and UAE Patent 106/2014, 14/130,988 US Patent filling no., 2012281233.0 Australia Patent filling no.
3. M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan (2010) A System to Administer an Outcome Based Education, Patent Pending, MyIPO PI2010003169, PCT India/Australia/US/Japan/Oman (453/2011) /New Zealand (603827).
4. **A.R Abu Talib**, M.S Yahaya, U.N.N Abdullah, S.A Adam, M.N Abdul Rahman, Non-Penetrative Blood Container and Apparatus for Vacuuming the Same (2010), Patent Pending, MyIPO UI2010700039, Australia Patent: 2012204049, US Patent: 13547304.

Copyright and Trademark

1. Kamariah Hj Abu Bakar, **A.R Abu Talib**, Ahmad Fauzi Mohd. Ayub, Mohd. Shahwahid Hj. Othman, Noor Akma Ibrahim, Wong Su Luan, Zaidatul Akmaliah Lope Pihie, (2013), Survey of Teaching and Assessment Methods among Academics (STAM) Manual, Literacy Work – Copyright, UPM.
2. Kamariah Hj Abu Bakar, **A.R Abu Talib**, Ahmad Fauzi Mohd. Ayub, Mohd. Shahwahid Hj. Othman, Noor Akma Ibrahim, Wong Su Luan, Zaidatul Akmaliah Lope Pihie, (2011), Survey of Teaching and Assessment Methods among Academics (STAM) Manual, Artistic Work – Copyright, UPM.
3. M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan (2010) A System to Administer an Outcome Based Education, Derivative Work – Copyright, UPM.
4. M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan (2010) A System to Administer an Outcome Based Education, TradeMark 2010022839, UPM

COMMERCIALIZED PRODUCTS

1. Vacuum Blood Container, SJ-VacTube (2016) IP was sold to SeliaTek Industries Sdn. Bhd. The product is now accepted to be used in Hospitals under the Ministry of Health, Malaysia.
2. Multi-purpose Safety Syringe (2016) IP was sold to SeliaTek Industries Sdn. Bhd.
3. Outcome Based Education Management System, MyOBE (2010) IP was licensed to MIQEDuSys Sdn Bhd and was sold to UniSEL, UPNM, UiTM Faculty of Mechanical Engineering, GMI, King Saud University, and Department of Politechnics Education, Ministry of Higher Education.
4. Outcome Based Education Management System, MyOBE (2021) IP was licensed to MSQEDuSys Sdn Bhd.